

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458334

Luminaire Tested: **GALN-SA9D-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60019 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

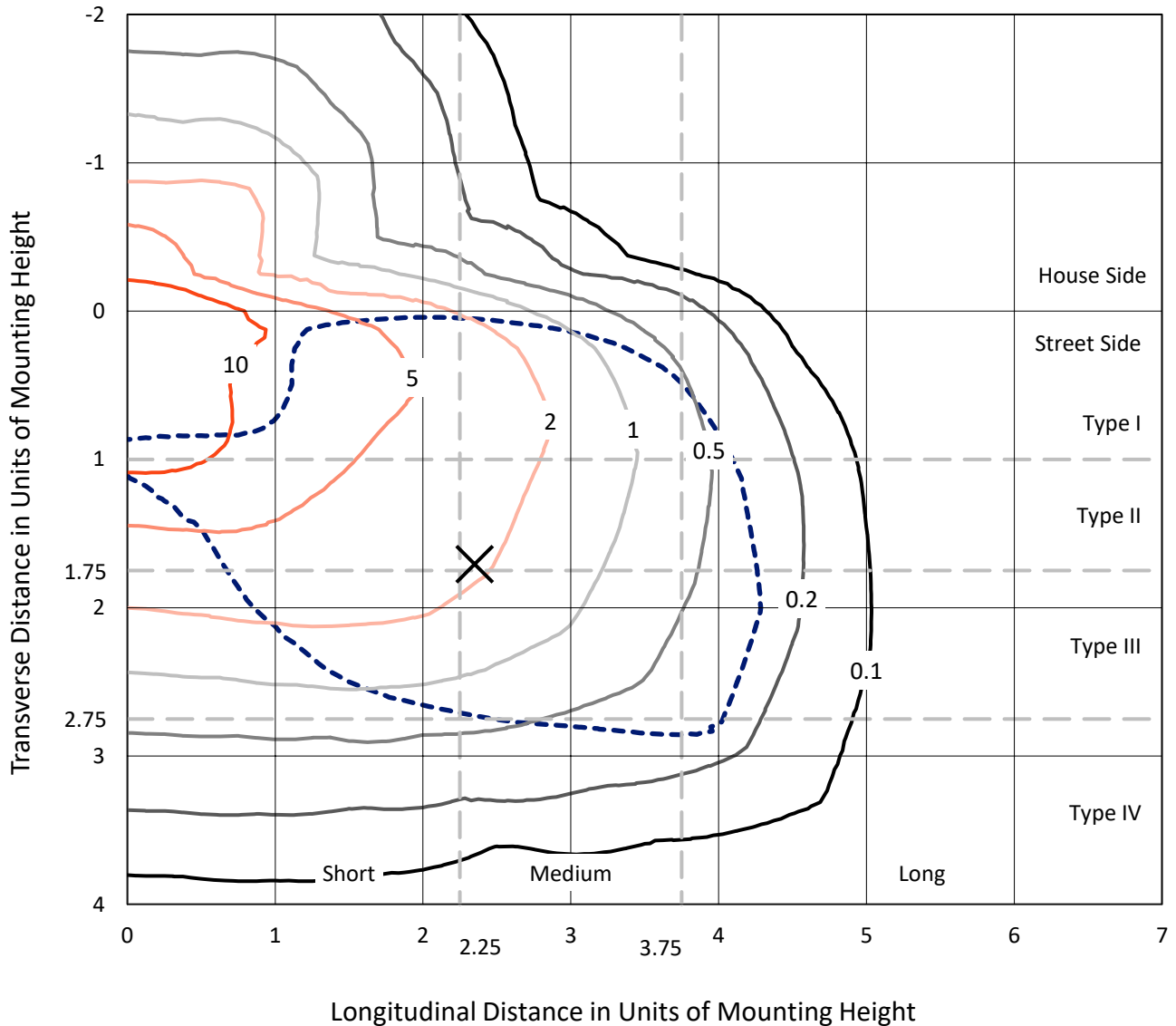




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Iso-Footcandle Lines of Horizontal Illumination

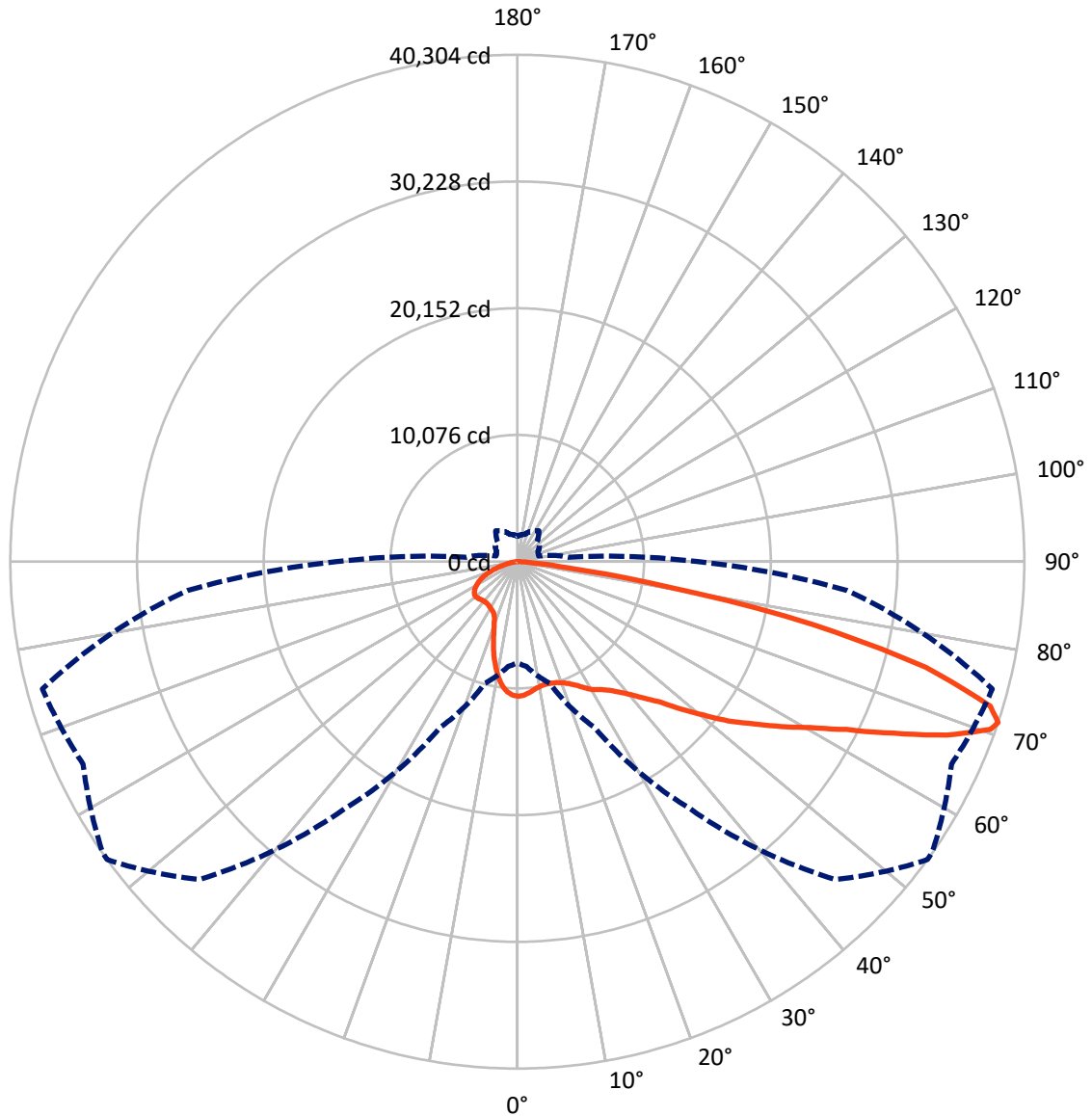
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10836.0	0.0	10836.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49182.9	0.0	49182.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	60019.0	0.0	60019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.3	1.6
10°-20°	2519.8	4.2
20°-30°	4195.5	7.0
30°-40°	6203.8	10.3
40°-50°	8738.2	14.6
50°-60°	11700.8	19.5
60°-70°	14748.0	24.6
70°-80°	10072.8	16.8
80°-90°	885.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	60019.0	100.0
0°-180°	60019.0	100.0

Coefficient of Utilization



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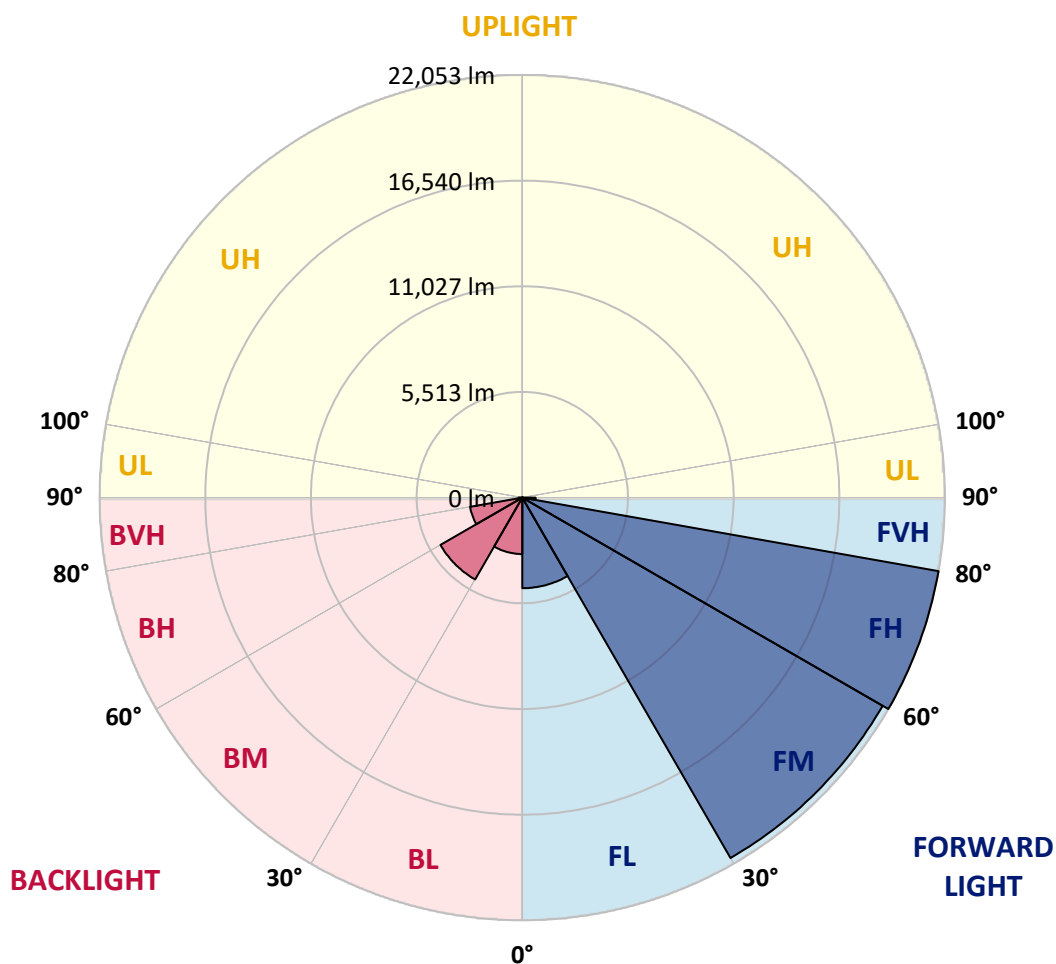
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4724.5	7.9			
FM	(30°-60°)	21712.7	36.2			
FH	(60°-80°)	22053.3	36.7			G5
FVH	(80°-90°)	692.4	1.2			G4/750
BL	(0°-30°)	2945.0	4.9	B4/5000		
BM	(30°-60°)	4930.1	8.2	B3/5000		
BH	(60°-80°)	2767.5	4.6	B4/5000		G4/5000
BVH	(80°-90°)	193.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3
2.5°	10345.2	10393.8	10406.8	10439.2	10507.3	10562.4	10617.5	10611.0	10688.8	10721.2	10750.4
5°	9884.8	9897.8	9946.4	10011.3	10131.2	10283.6	10432.7	10436.0	10627.2	10779.6	10854.2
7.5°	9547.6	9589.8	9622.2	9690.3	9816.7	9982.1	10218.7	10238.2	10578.6	10880.1	11039.0
10°	9327.2	9375.8	9411.5	9495.8	9622.2	9807.0	10063.1	10098.8	10542.9	11039.0	11317.8
12.5°	9126.2	9174.8	9207.2	9317.5	9482.8	9709.7	9998.3	10040.4	10555.9	11223.8	11622.5
15°	9249.4	9288.3	9275.3	9307.7	9418.0	9677.3	10024.2	10066.4	10604.5	11402.1	11924.0
17.5°	9797.3	9829.7	9722.7	9599.5	9547.6	9738.9	10105.3	10150.7	10701.8	11586.9	12232.0
20°	10604.5	10692.1	10458.6	10183.1	9933.4	9959.4	10273.9	10322.5	10838.0	11771.6	12546.5
22.5°	11654.9	11719.8	11434.5	10980.6	10520.2	10283.6	10526.7	10555.9	11042.2	12011.6	12890.1
25°	12890.1	12929.0	12533.5	11950.0	11285.4	10838.0	10873.6	10925.5	11379.4	12283.9	13194.9
27.5°	14089.7	14212.9	13755.7	13042.5	12167.2	11421.5	11350.2	11382.6	11745.7	12436.3	13405.6
30°	15512.9	15503.2	15020.1	14193.4	13071.7	12056.9	11800.8	11794.3	11943.5	12510.8	13558.0
32.5°	16647.6	16780.5	16307.2	15405.9	14105.9	12715.1	12112.1	12099.1	12095.8	12640.5	13784.9
35°	17937.9	17957.4	17522.9	16615.2	15224.4	13541.8	12546.5	12481.6	12407.1	12919.3	14092.9
37.5°	19092.1	19182.8	18784.1	17766.1	16323.4	14400.9	13143.0	13100.9	12873.9	13402.4	14585.7
40°	19993.3	20061.4	19821.5	18852.1	17406.2	15328.1	13901.6	13823.8	13548.3	14193.4	15243.8
42.5°	20288.3	20427.8	20521.8	20045.2	18651.1	16427.1	14835.3	14738.1	14527.3	15392.9	16002.4
45°	20311.0	20531.5	21027.5	21050.2	19902.5	17743.4	15924.6	15856.6	15840.3	16929.6	17069.1
47.5°	20139.2	20362.9	21196.1	21646.7	21017.8	19072.6	17497.0	17390.0	17399.7	18829.5	18265.3
50°	19724.2	19990.1	21001.6	22029.3	21889.9	20453.7	19156.9	19121.2	19322.2	20998.3	19507.0
52.5°	18942.9	19263.9	20800.6	22269.2	22538.3	21643.5	21043.7	20943.2	21452.2	23352.0	20865.4
55°	16780.5	17263.6	20064.6	22402.1	23154.3	22781.4	22742.5	22924.1	23598.4	25919.7	22360.0
57.5°	15652.3	16015.4	18466.3	22424.8	23932.3	24104.2	24726.6	24772.0	25952.1	28646.2	24049.0
60°	15036.3	15357.3	17591.0	22275.7	25018.4	25741.4	26756.1	26918.2	28250.7	31599.6	25799.7
62.5°	14498.2	14773.7	17065.8	21760.2	26243.9	28169.6	29385.4	29463.2	30860.5	34861.1	27527.7
65°	13230.5	13545.0	16008.9	21244.7	27300.8	31204.1	32873.7	32783.0	33638.8	37675.1	28610.5
67.5°	11522.0	11920.8	14034.6	19464.9	27822.7	34520.7	36803.0	36689.6	36381.6	39519.8	28921.8
70°	9340.2	9554.1	11509.0	16388.2	25738.1	36261.6	39905.6	39785.6	38080.4	39763.0	27449.9
71°	8036.9	8370.8	10021.0	14556.5	24003.7	35729.9	40304.4	40271.9	38083.6	39091.9	26341.1
72.5°	6273.2	6477.5	7936.4	11278.9	20401.8	32708.4	39318.8	39442.0	37256.9	37227.7	24055.5
75°	3968.2	4059.0	4979.7	6639.6	11194.6	23164.0	33564.3	33898.2	33081.2	30471.4	17889.3
77.5°	2305.1	2421.8	2982.6	3913.1	4837.0	12572.4	24016.6	24379.7	22985.7	16777.3	7323.6
80°	1342.2	1471.9	1964.6	2272.6	2220.8	4665.2	12228.8	12848.0	9952.9	4237.3	2055.4
82.5°	745.7	833.2	1381.1	1384.3	1183.3	1523.7	3848.2	4026.5	2840.0	1708.5	839.7
85°	541.4	612.7	891.5	807.3	567.3	654.9	1338.9	1403.8	1147.7	719.7	272.3
87.5°	191.3	272.3	489.5	389.0	155.6	136.2	385.8	314.5	291.8	201.0	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3	10708.3
2.5°	10766.6	10773.1	10740.7	10682.3	10624.0	10549.4	10465.1	10400.3	10371.1	10367.9	10364.6
5°	10883.3	10899.6	10776.4	10594.8	10393.8	10147.4	9936.7	9696.8	9635.2	9537.9	9567.1
7.5°	11071.4	11061.7	10818.5	10432.7	9962.6	9440.7	8999.8	8743.6	8477.8	8403.2	8406.5
10°	11340.5	11278.9	10818.5	10102.0	9317.5	8542.6	7926.7	7537.6	7326.9	7151.8	7087.0
12.5°	11625.8	11470.1	10714.8	9638.4	8487.5	7537.6	6876.3	6351.0	6214.9	6072.2	6075.5
15°	11898.1	11638.7	10510.5	8986.8	7592.7	6464.5	5822.6	5508.1	5466.0	5482.2	5479.0
17.5°	12144.5	11758.7	10199.3	8260.6	6548.8	5543.8	5203.4	5226.1	5339.6	5420.6	5430.3
20°	12394.1	11830.0	9735.7	7288.0	5563.2	4986.2	4999.1	5177.5	5349.3	5459.5	5475.7
22.5°	12630.8	11862.4	9191.0	6347.8	4850.0	4749.5	4940.8	5132.1	5300.6	5407.6	5423.8
25°	12786.4	11787.9	8419.4	5365.5	4499.9	4665.2	4866.2	5028.3	5171.0	5281.2	5307.1
27.5°	12828.5	11548.0	7463.1	4571.2	4337.8	4584.2	4769.0	4888.9	4999.1	5102.9	5122.3
30°	12805.8	11194.6	6412.6	4104.4	4243.8	4490.1	4632.8	4720.3	4853.3	4934.3	4950.5
32.5°	12770.2	10782.8	5316.9	3854.7	4166.0	4402.6	4486.9	4564.7	4561.5	4529.1	4551.7
35°	12783.1	10290.1	4428.6	3705.6	4097.9	4337.8	4409.1	4311.8	4033.0	4020.1	4007.1
37.5°	12851.2	9803.8	3783.4	3601.8	4062.2	4328.1	4367.0	3919.6	3673.2	3559.7	3530.5
40°	13026.3	9236.4	3358.7	3524.0	4059.0	4402.6	4175.7	3721.8	3248.5	3028.0	3011.8
42.5°	13259.7	8678.8	3099.3	3475.4	4097.9	4516.1	4097.9	3443.0	2927.5	2797.8	2778.4
45°	13606.6	8040.1	2956.7	3452.7	4156.2	4558.2	4071.9	3238.7	2797.8	2694.1	2694.1
47.5°	13998.9	7430.6	2878.9	3436.5	4230.8	4529.1	3841.8	3173.9	2736.2	2749.2	2810.8
50°	14387.9	6902.2	2820.5	3400.8	4295.6	4512.8	3747.7	3170.7	2752.4	2917.8	3028.0
52.5°	14838.6	6529.4	2749.2	3342.5	4295.6	4409.1	3718.6	3235.5	2797.8	2846.5	2895.1
55°	15383.2	6412.6	2658.4	3216.0	4217.8	4149.7	3702.3	3329.5	2830.3	2716.8	2736.2
57.5°	16102.9	6600.7	2570.9	3057.2	4039.5	3880.7	3695.9	3355.5	2755.7	2661.7	2642.2
60°	16939.4	6973.5	2545.0	2895.1	3796.4	3650.5	3657.0	3280.9	2651.9	2554.7	2570.9
62.5°	17526.2	7197.2	2528.7	2771.9	3530.5	3397.6	3562.9	3190.1	2606.6	2522.3	2538.5
65°	17526.2	6924.9	2379.6	2583.9	3186.9	3092.9	3449.5	3076.6	2548.2	2450.9	2434.7
67.5°	16861.6	6130.6	2152.7	2301.8	2807.6	2746.0	3290.6	2940.5	2460.7	2386.1	2347.2
70°	15130.3	4649.0	1867.4	1971.1	2327.7	2382.9	3086.4	2755.7	2314.8	2224.0	2165.6
71°	14368.5	4049.2	1747.4	1802.5	2143.0	2224.0	2989.1	2677.9	2249.9	2120.3	2016.5
72.5°	12899.9	3410.6	1565.9	1588.6	1831.7	1977.6	2784.9	2528.7	2126.7	1941.9	1825.2
75°	9800.5	2489.8	1261.1	1248.2	1355.1	1569.1	2356.9	2253.2	1864.1	1614.5	1546.4
77.5°	4234.0	1355.1	943.4	953.1	920.7	1189.8	1854.4	1935.5	1598.3	1313.0	1251.4
80°	1283.8	781.3	645.2	658.1	616.0	797.5	1306.5	1517.2	1283.8	1021.2	936.9
82.5°	658.1	466.8	440.9	434.4	392.3	450.6	791.0	1037.4	917.5	638.7	564.1
85°	285.3	249.6	217.2	210.7	184.8	162.1	282.1	518.7	486.3	356.6	340.4
87.5°	71.3	64.8	42.1	38.9	22.7	3.2	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)