

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: P457159

Luminaire Tested: **GALN-SA8C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47058 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

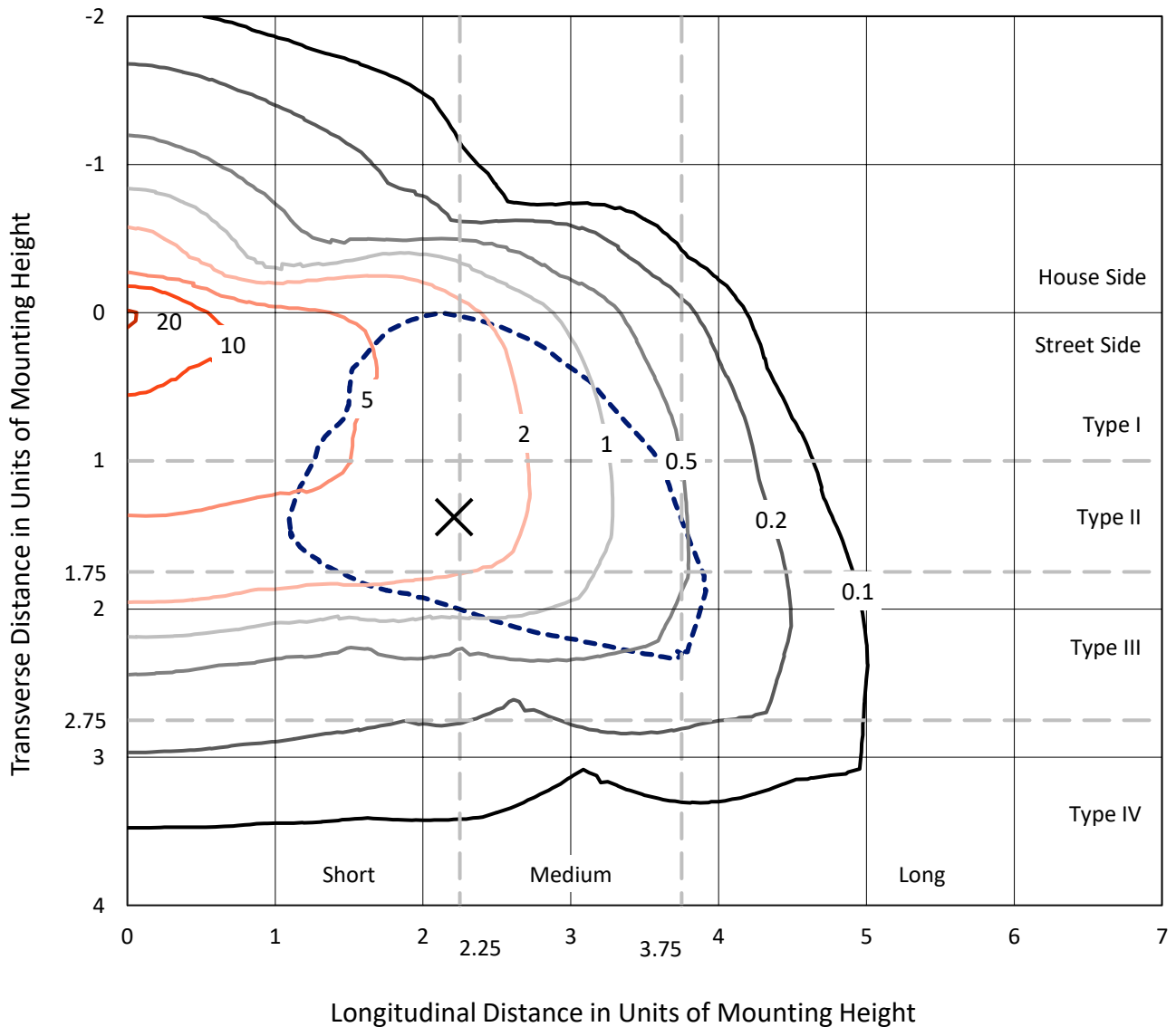
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

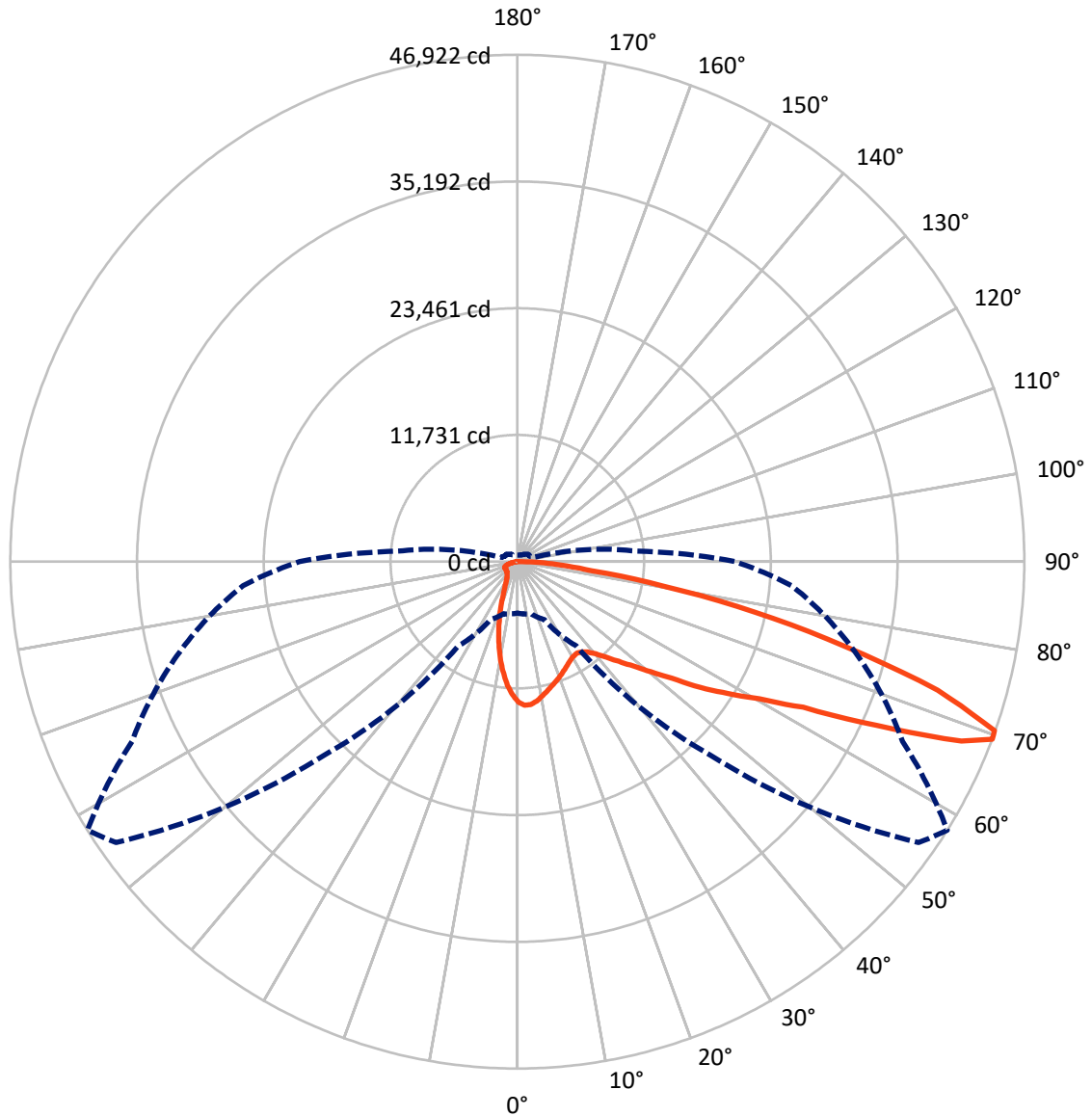
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6896.3	0.0	6896.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	40161.7	0.0	40161.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	47058.0	0.0	47058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.4	2.3
10°-20°	2425.0	5.2
20°-30°	3133.1	6.7
30°-40°	4069.3	8.6
40°-50°	5916.2	12.6
50°-60°	9440.3	20.1
60°-70°	12611.1	26.8
70°-80°	7269.8	15.4
80°-90°	1088.9	2.3
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°	47058.0	100.0
0°-180°	47058.0	100.0

Coefficient of Utilization



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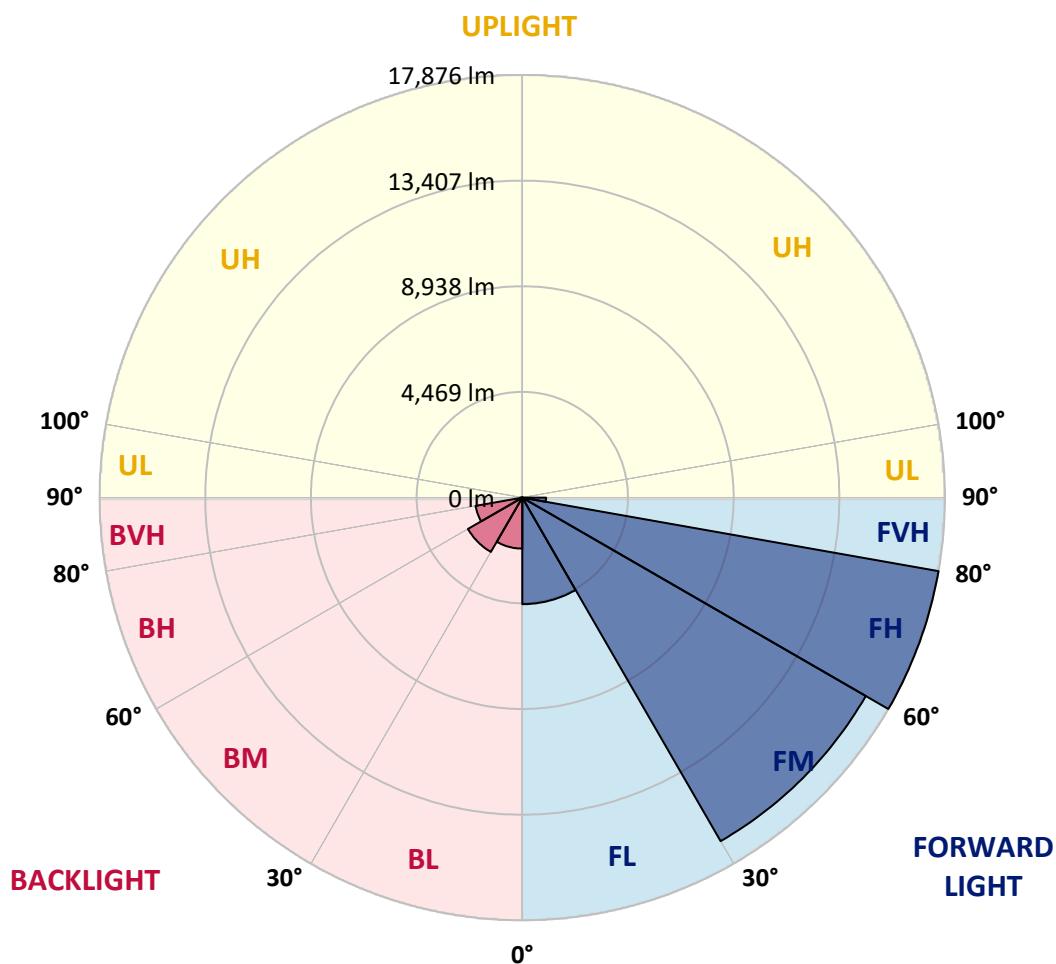
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4507.0	9.6			
FM (30°-60°)	16773.7	35.6			
FH (60°-80°)	17875.5	38.0			G5
FVH (80°-90°)	1005.4	2.1			G5
BL (0°-30°)	2155.5	4.6	B3/2500		
BM (30°-60°)	2652.1	5.6	B3/5000		
BH (60°-80°)	2005.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	83.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1
2.5°	13487.0	13523.7	13513.2	13500.1	13479.1	13421.4	13326.9	13311.1	13250.8	13122.2	12962.1
5°	13279.6	13311.1	13313.8	13332.1	13358.4	13347.9	13279.6	13271.8	13182.5	13009.3	12741.6
7.5°	12568.4	12610.4	12702.3	12804.6	12896.5	12983.1	13004.1	13017.2	12962.1	12762.6	12405.7
10°	11768.0	11810.0	11851.9	12004.2	12229.9	12445.1	12623.5	12647.2	12660.3	12476.6	12040.9
12.5°	10880.9	10967.5	11056.7	11282.4	11584.3	11922.8	12237.7	12287.6	12376.8	12237.7	11726.0
15°	10127.7	10216.9	10345.5	10547.6	10912.4	11400.5	11844.1	11925.4	12101.3	12030.4	11432.0
17.5°	9605.4	9636.9	9726.2	9957.1	10350.8	10865.2	11458.3	11621.0	11901.8	11883.4	11180.1
20°	9193.4	9232.8	9287.9	9429.6	9839.0	10382.3	11098.7	11308.7	11689.2	11752.2	10930.8
22.5°	9020.2	9049.1	9041.2	9117.3	9395.5	9941.4	10733.9	10983.3	11500.3	11663.0	10699.8
25°	9030.7	9056.9	9017.6	8999.2	9164.5	9552.9	10353.4	10671.0	11348.1	11602.6	10489.9
27.5°	9206.5	9224.9	9151.4	9077.9	9091.0	9311.5	10038.5	10390.1	11219.5	11628.9	10314.0
30°	9442.7	9476.8	9429.6	9340.4	9243.3	9253.8	9836.4	10182.8	11159.1	11720.7	10230.0
32.5°	9747.2	9778.6	9757.6	9686.8	9560.8	9421.7	9786.5	10106.7	11164.3	11907.1	10211.7
35°	10067.3	10130.3	10164.4	10159.2	10056.8	9815.4	9983.4	10248.4	11290.3	12219.4	10319.3
37.5°	10429.5	10482.0	10629.0	10723.4	10629.0	10348.1	10426.9	10610.6	11568.5	12670.8	10555.5
40°	10781.2	10859.9	11075.1	11369.1	11332.3	11085.6	11104.0	11224.7	12059.3	13342.6	11017.4
42.5°	11148.6	11243.1	11618.4	12054.0	12140.6	11949.1	11998.9	12106.5	12757.4	14274.3	11810.0
45°	11621.0	11733.8	12195.8	12739.0	13080.2	12962.1	13103.8	13156.3	13691.7	15486.8	12854.5
47.5°	12229.9	12361.1	12930.6	13607.7	14090.6	14198.2	14444.9	14413.4	14849.1	16922.4	14208.7
50°	13256.0	13329.5	13867.5	14557.7	15221.7	15707.2	15974.9	16024.8	16284.6	18318.6	15723.0
52.5°	14476.4	14542.0	14930.4	15534.0	16366.0	17394.8	18056.1	17893.4	17956.4	20019.2	17494.5
55°	15849.0	15959.2	16205.9	16607.4	17686.1	19200.4	20528.3	20567.7	19869.6	21646.3	19192.5
57.5°	16911.9	17098.2	17520.7	18092.9	19460.2	21208.1	22992.7	23018.9	22126.6	23383.7	21066.3
60°	16376.5	16596.9	17562.7	18956.3	21788.1	24711.7	25937.3	25787.7	24323.3	25362.5	23352.2
62.5°	14067.0	14106.3	15510.4	17688.7	22504.5	29398.9	30320.1	29687.6	27254.8	27871.5	25674.8
65°	9104.2	9361.4	10474.1	13526.3	20150.4	31999.7	37999.2	36537.4	31364.6	30719.0	27619.6
67.5°	5747.5	5681.9	6143.8	7723.7	13859.6	29708.6	44552.4	44321.5	36739.5	32516.8	27155.0
69°	4766.0	4839.5	4996.9	5920.7	9537.2	25365.2	45326.6	46922.3	39345.5	32375.0	25467.5
70°	4322.4	4356.6	4521.9	5248.9	7358.9	21244.8	44056.4	46851.4	40369.1	31781.9	24244.5
72.5°	3430.1	3427.5	3711.0	4367.1	5500.8	12127.5	36175.2	40676.1	39224.8	29021.0	20032.3
75°	2606.1	2648.1	2960.4	3695.2	5067.8	6626.7	25244.4	31325.3	31327.9	22921.8	12500.2
77.5°	1879.1	1905.3	2270.1	3102.1	4773.8	5372.2	16814.8	22467.8	21121.5	10503.0	3928.8
80°	1230.9	1246.6	1524.8	2456.5	4304.1	5067.8	9970.2	13752.0	9962.4	2787.2	1299.1
82.5°	674.5	753.2	931.7	1590.4	3453.8	4682.0	6059.8	6960.0	3737.2	1241.4	677.1
85°	338.6	359.5	524.9	929.1	2257.0	3873.7	4220.1	3991.8	1929.0	616.7	351.7
87.5°	99.7	126.0	217.8	359.5	915.9	2018.2	2348.9	2107.4	742.7	223.1	73.5
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°	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1	13004.1
2.5°	12896.5	12849.2	12639.3	12450.3	12277.1	12093.4	11938.6	11802.1	11815.2	11817.8	11678.7
5°	12602.5	12494.9	12096.0	11723.4	11408.4	11009.5	10668.3	10447.9	10337.7	10190.7	10243.2
7.5°	12203.6	11996.3	11442.5	10823.2	10243.2	9726.2	9164.5	8778.7	8532.0	8293.2	8324.7
10°	11791.6	11458.3	10652.6	9833.8	9083.2	8256.5	7540.0	6925.9	6469.2	6298.6	6185.8
12.5°	11369.1	10930.8	9907.2	8818.1	7781.5	6792.0	5776.4	5117.6	4613.8	4346.1	4380.2
15°	10983.3	10450.5	9130.4	7802.4	6456.1	5277.7	4264.7	3637.5	3285.8	3212.3	3254.3
17.5°	10626.3	9928.2	8403.4	6815.7	5243.6	3957.6	3204.4	2850.1	2708.4	2669.1	2666.4
20°	10258.9	9484.7	7587.2	5760.6	4086.2	3068.0	2629.7	2464.3	2438.1	2453.8	2456.5
22.5°	9886.2	8936.2	6747.4	4713.5	3254.3	2509.0	2299.0	2254.4	2275.4	2312.1	2317.4
25°	9542.4	8453.3	5939.1	3794.9	2598.2	2204.5	2102.2	2102.2	2149.4	2204.5	2207.1
27.5°	9259.0	7986.2	5133.4	3012.9	2175.7	1984.1	1950.0	1968.3	2033.9	2075.9	2078.6
30°	9025.4	7550.5	4372.3	2414.5	1913.2	1808.2	1800.4	1831.9	1879.1	1918.5	1921.1
32.5°	8849.6	7167.3	3661.1	2028.7	1732.1	1674.4	1671.8	1695.4	1721.6	1732.1	1742.6
35°	8781.4	6849.8	3010.2	1784.6	1611.4	1574.7	1574.7	1572.0	1582.5	1587.8	1593.0
37.5°	8836.5	6605.7	2506.3	1627.1	1522.2	1495.9	1480.2	1464.4	1459.2	1459.2	1461.8
40°	9070.0	6477.1	2131.0	1524.8	1459.2	1419.8	1391.0	1372.6	1354.2	1359.5	1364.7
42.5°	9566.1	6500.7	1876.5	1456.6	1404.1	1349.0	1307.0	1286.0	1272.9	1288.6	1286.0
45°	10356.0	6736.9	1713.8	1409.3	1349.0	1278.1	1238.7	1217.7	1217.7	1241.4	1249.2
47.5°	11460.9	7188.3	1627.1	1372.6	1307.0	1223.0	1183.6	1167.9	1173.1	1212.5	1215.1
50°	12809.9	7973.0	1611.4	1354.2	1286.0	1183.6	1139.0	1123.3	1136.4	1178.4	1183.6
52.5°	14297.9	8983.4	1687.5	1356.8	1267.6	1160.0	1102.3	1078.6	1091.8	1125.9	1136.4
55°	16061.5	10248.4	1884.3	1367.3	1241.4	1146.9	1076.0	1023.5	1039.3	1062.9	1065.5
57.5°	17861.9	11844.1	2230.8	1370.0	1220.4	1123.3	1031.4	963.2	963.2	978.9	986.8
60°	20061.2	13581.5	2687.4	1372.6	1223.0	1089.1	971.0	894.9	884.4	892.3	894.9
62.5°	22244.7	15035.4	2763.5	1364.7	1249.2	1055.0	905.4	826.7	808.3	805.7	800.5
65°	23207.9	14765.1	2264.9	1328.0	1278.1	1034.0	852.9	761.1	729.6	719.1	719.1
67.5°	21638.5	12489.7	1703.3	1278.1	1259.7	1013.0	803.1	706.0	669.2	648.2	648.2
69°	20163.5	11109.2	1530.0	1244.0	1212.5	978.9	771.6	677.1	632.5	608.9	601.0
70°	19024.5	10159.2	1456.6	1215.1	1167.9	939.5	748.0	656.1	606.2	580.0	574.8
72.5°	15182.4	7970.4	1275.5	1104.9	994.7	790.0	664.0	590.5	543.3	514.4	506.5
75°	8749.9	4319.8	1057.6	960.5	800.5	614.1	561.6	514.4	477.6	451.4	443.5
77.5°	2692.7	1669.1	766.3	758.5	587.9	475.0	448.8	430.4	404.2	375.3	370.0
80°	1133.8	850.3	519.6	511.8	391.0	330.7	322.8	320.2	309.7	286.1	278.2
82.5°	622.0	480.3	362.2	314.9	236.2	191.6	199.5	202.1	194.2	170.6	154.8
85°	304.4	262.4	175.8	141.7	107.6	68.2	65.6	78.7	73.5	52.5	57.7
87.5°	60.4	73.5	47.2	21.0	10.5	0.0	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)