

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: P459287

Luminaire Tested: **GALN-SA7C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46489 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

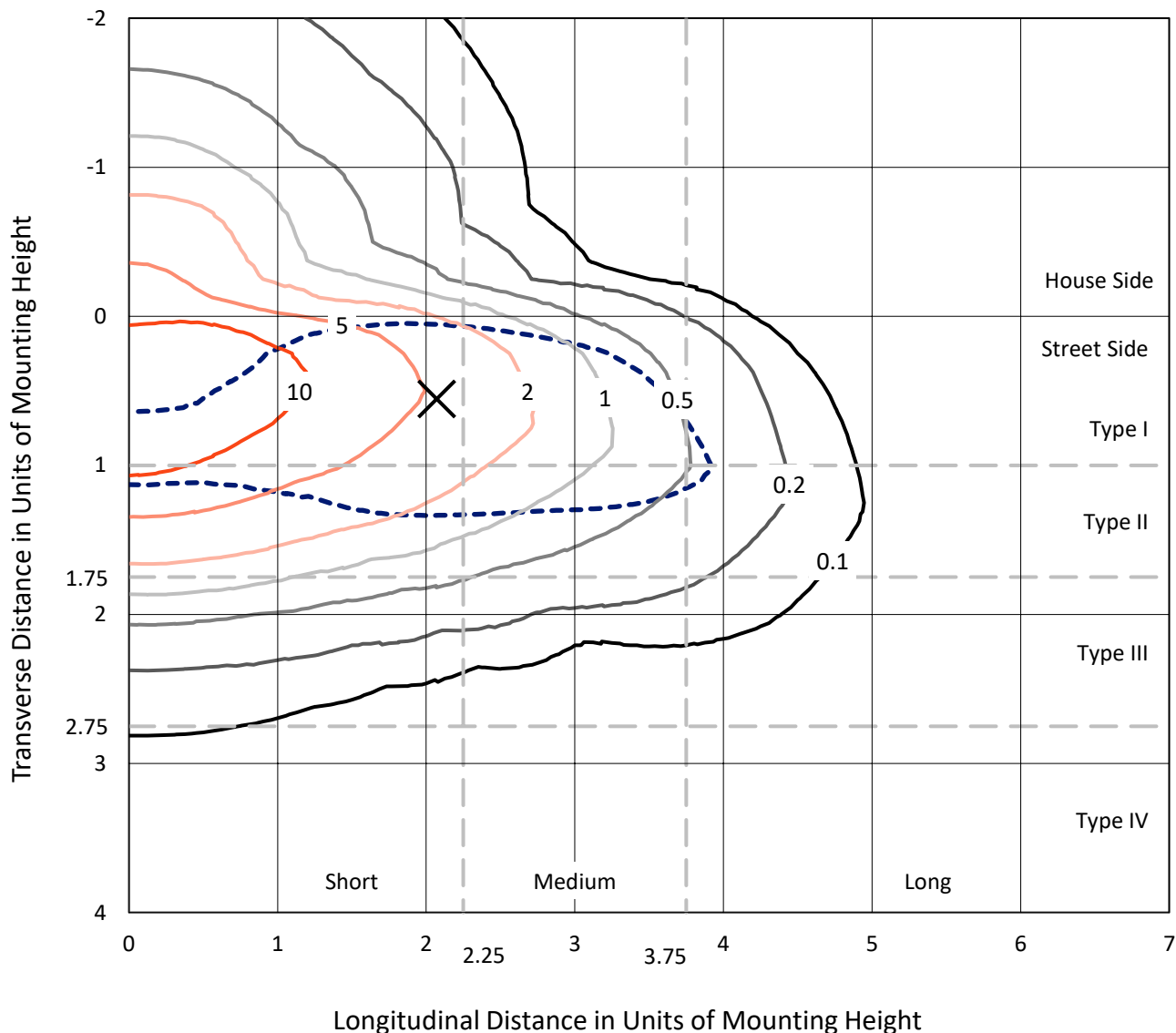
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

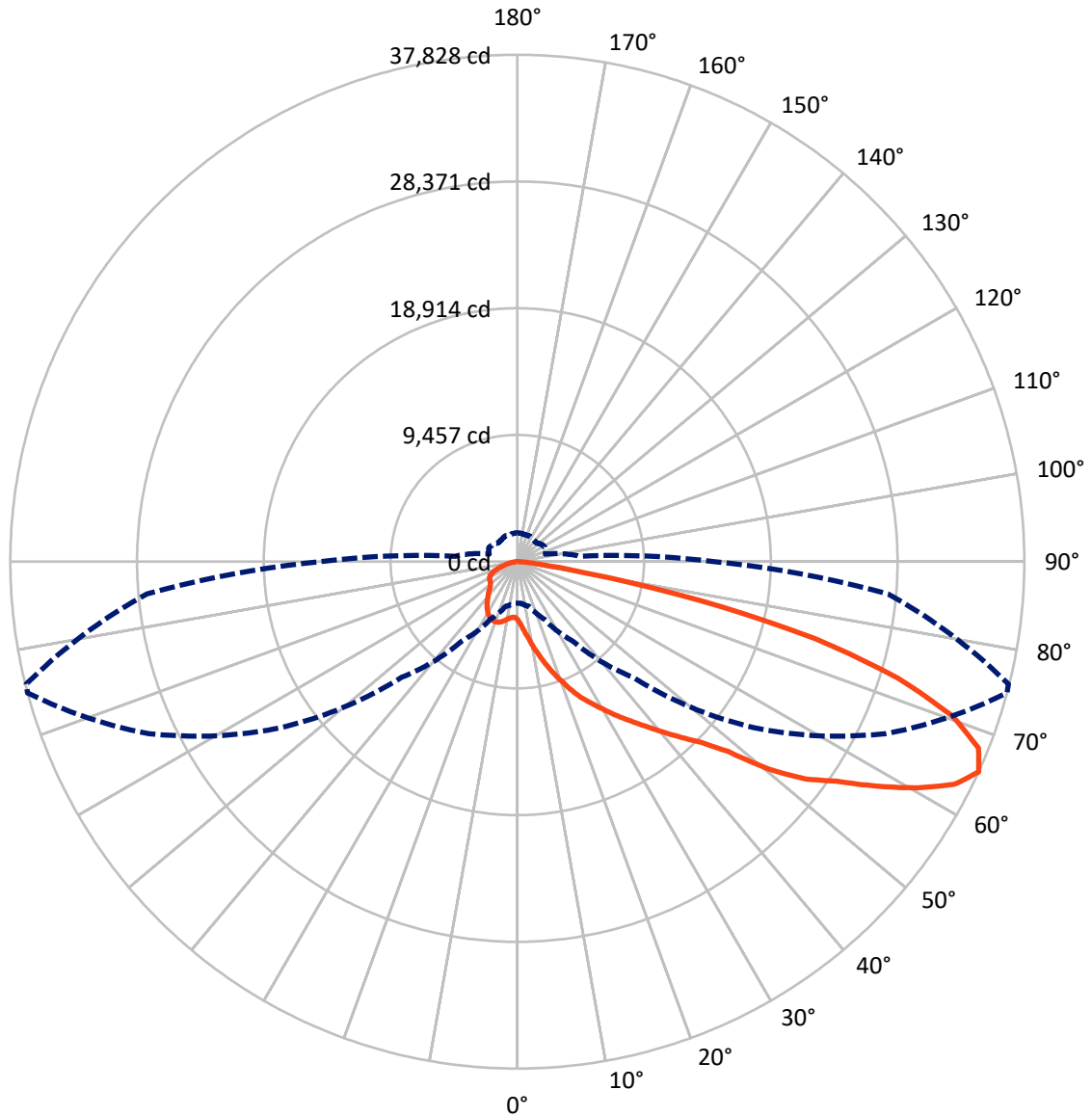
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7815.4	0.0	7815.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38673.6	0.0	38673.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	46489.0	0.0	46489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	1.1
10°-20°	2055.6	4.4
20°-30°	3970.6	8.5
30°-40°	6449.5	13.9
40°-50°	8871.9	19.1
50°-60°	10474.7	22.5
60°-70°	9177.5	19.7
70°-80°	4381.4	9.4
80°-90°	583.0	1.3
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°	46489.0	100.0
0°-180°	46489.0	100.0

Coefficient of Utilization



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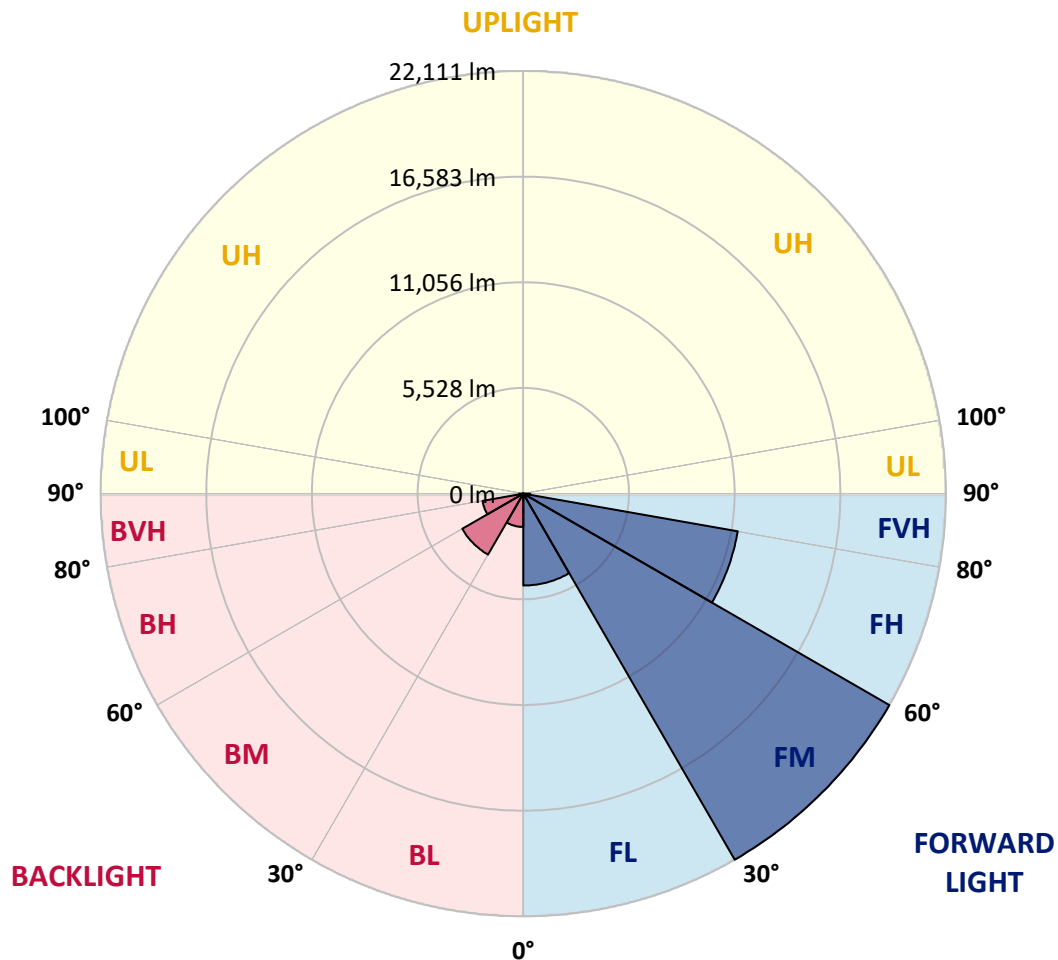
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4806.2	10.3			
FM	(30°-60°)	22111.1	47.6			
FH	(60°-80°)	11391.9	24.5			G4/12000
FVH	(80°-90°)	364.3	0.8			G3/500
BL	(0°-30°)	1744.8	3.8	B3/2500		
BM	(30°-60°)	3684.9	7.9	B3/5000		
BH	(60°-80°)	2167.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	218.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4
2.5°	5739.0	5701.2	5660.9	5549.9	5431.4	5297.8	5106.1	4922.1	4677.5	4669.9	4488.4
5°	7330.1	7304.9	7125.9	7022.5	6747.7	6382.0	6071.9	5590.3	5144.0	5091.0	4738.0
7.5°	8792.6	8694.3	8626.2	8439.6	8167.3	7698.3	7098.2	6447.6	5701.2	5630.6	5045.6
10°	9894.6	9884.5	9849.2	9687.8	9483.5	9017.1	8351.4	7418.4	6407.3	6268.6	5418.8
12.5°	10719.1	10726.7	10721.6	10719.1	10572.9	10177.0	9455.8	8472.4	7120.9	7022.5	5850.0
15°	11261.2	11336.9	11367.1	11493.2	11505.8	11241.1	10620.8	9491.1	7925.2	7779.0	6314.0
17.5°	11619.3	11657.1	11798.3	12012.7	12186.7	12138.7	11586.5	10434.2	8747.3	8502.7	6795.6
20°	11962.2	12027.8	12136.2	12428.7	12736.3	12877.6	12489.2	11399.9	9561.7	9405.4	7327.6
22.5°	12675.8	12769.1	12807.0	12955.7	13218.0	13467.6	13291.1	12325.3	10454.3	10242.5	7892.5
25°	13883.7	13982.0	13876.1	13840.8	13926.5	14050.1	14012.3	13197.8	11296.5	10994.0	8427.0
27.5°	15457.1	15469.7	15262.9	15066.3	14854.5	14791.4	14675.4	13971.9	12027.8	11775.6	8964.1
30°	17146.5	17086.0	16743.1	16387.6	16029.5	15676.5	15343.6	14718.3	12842.3	12552.3	9491.1
32.5°	18714.9	18682.2	18301.4	17749.2	17144.0	16811.2	16137.9	15472.2	13714.7	13434.8	10033.2
35°	19890.0	19937.9	19519.3	18916.7	18256.0	17961.0	17111.2	16264.0	14617.4	14312.3	10623.3
37.5°	20724.6	20699.4	20328.7	19806.8	19226.8	18969.6	18248.5	17128.9	15588.2	15295.7	11268.8
40°	21022.2	21007.0	20732.2	20351.4	19983.3	19892.5	19438.6	18061.9	16700.2	16357.3	12045.4
42.5°	20833.0	20865.8	20684.3	20580.9	20512.8	20578.4	20621.2	19284.8	17913.1	17597.9	12887.6
45°	20253.1	20235.4	20210.2	20379.2	20762.4	21193.6	21791.2	20439.7	19231.9	18979.7	14017.3
47.5°	19216.7	19342.8	19405.8	19872.3	20709.5	21730.7	23137.7	21987.9	21145.7	20926.3	15739.5
50°	17766.8	17867.7	18240.9	19070.5	20318.7	21932.4	24454.0	24519.6	24338.0	23927.0	17610.5
52.5°	15502.5	15658.8	16427.9	17948.4	19516.8	21849.2	25250.8	26690.6	26930.2	26622.5	19453.8
55°	12968.3	13187.7	13999.6	15994.2	18412.4	21395.4	25800.5	27948.9	28904.5	28619.6	21228.9
57.5°	10487.1	10719.1	11553.7	13485.2	16485.9	20391.8	26161.1	29350.8	31592.5	31221.8	23437.8
60°	7859.7	8101.7	8817.9	10807.4	13742.4	18430.0	25916.5	30566.2	34278.0	34119.1	25649.2
62.5°	5070.8	5338.1	5960.9	7607.5	10562.8	15749.6	24607.8	31237.0	36602.8	36411.2	27263.0
65°	3088.9	3119.2	3462.1	4722.9	7229.3	12194.2	21614.7	30346.9	37828.3	37770.3	27754.7
67.5°	1997.1	2045.0	2201.3	2829.2	4334.5	8469.9	17282.7	27409.2	37112.2	37092.0	26738.5
70°	1686.9	1702.0	1772.6	1908.8	2519.0	5136.4	12136.2	22726.7	34391.4	34391.4	24295.1
72.5°	1507.9	1528.1	1553.3	1596.1	1797.9	2909.9	7241.9	17691.2	29693.8	29890.5	20679.2
75°	1369.2	1364.2	1379.3	1386.9	1533.1	1901.2	3744.5	13084.3	22971.3	22578.0	14975.5
77.5°	1172.5	1180.1	1172.5	1205.3	1354.1	1447.4	1901.2	8780.0	13921.5	13412.1	7516.7
80°	963.2	975.8	988.4	1008.6	1157.4	1099.4	1142.3	4001.7	5149.0	5040.6	2322.3
82.5°	723.7	741.3	761.5	809.4	910.3	726.2	721.2	1709.6	1858.4	1702.0	854.8
85°	292.5	345.5	522.0	569.9	572.4	398.4	443.8	713.6	759.0	741.3	335.4
87.5°	68.1	80.7	168.9	254.7	234.5	148.8	163.9	232.0	264.8	244.6	113.5
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°	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4
2.5°	4405.1	4316.9	4165.6	4049.6	3966.4	3893.3	3847.9	3820.1	3810.1	3807.5	3810.1
5°	4553.9	4397.6	4158.0	4006.7	3923.5	3875.6	3847.9	3845.4	3847.9	3850.4	3842.8
7.5°	4758.2	4533.7	4221.1	4079.9	4016.8	3981.5	3968.9	3963.9	3966.4	3963.9	3963.9
10°	5030.5	4722.9	4344.6	4198.4	4145.4	4105.1	4084.9	4072.3	4062.2	4052.1	4047.1
12.5°	5330.6	4932.2	4478.3	4337.1	4261.4	4198.4	4153.0	4120.2	4097.5	4074.8	4069.8
15°	5665.9	5154.0	4627.0	4430.4	4321.9	4228.6	4150.5	4097.5	4057.2	4024.4	4021.9
17.5°	5986.2	5363.3	4727.9	4473.2	4314.4	4183.3	4079.9	4006.7	3956.3	3913.4	3908.4
20°	6329.1	5562.5	4773.3	4445.5	4238.7	4079.9	3943.7	3855.5	3797.5	3749.5	3742.0
22.5°	6674.5	5731.5	4768.3	4357.2	4107.6	3921.0	3777.3	3684.0	3615.9	3568.0	3550.3
25°	7004.9	5867.6	4705.2	4216.0	3926.1	3731.9	3585.6	3499.9	3439.4	3381.4	3381.4
27.5°	7302.4	5948.3	4586.7	4044.6	3739.5	3535.2	3419.2	3341.1	3285.6	3247.8	3225.1
30°	7594.9	5986.2	4425.3	3827.7	3542.8	3368.8	3275.5	3230.1	3179.7	3136.8	3131.8
32.5°	7857.2	5978.6	4223.6	3615.9	3356.2	3232.6	3194.8	3159.5	3106.5	3046.0	3030.9
35°	8111.8	5928.2	3984.0	3383.9	3199.8	3151.9	3162.0	3111.6	3015.8	2940.1	2927.5
37.5°	8389.2	5837.4	3721.8	3194.8	3068.7	3114.1	3139.3	3028.4	2872.0	2753.5	2725.8
40°	8709.4	5734.0	3449.5	3005.7	2965.3	3078.8	3078.8	2874.6	2660.2	2587.1	2566.9
42.5°	9085.1	5648.3	3222.5	2846.8	2879.6	2993.1	2980.5	2670.3	2582.1	2544.2	2534.2
45°	9680.2	5618.0	2988.0	2708.1	2809.0	2892.2	2788.8	2599.7	2549.3	2519.0	2508.9
47.5°	10620.8	5653.3	2781.3	2604.8	2728.3	2791.4	2574.5	2551.8	2516.5	2473.6	2468.6
50°	11493.2	5620.5	2635.0	2546.8	2657.7	2670.3	2486.2	2493.8	2473.6	2425.7	2415.6
52.5°	12206.8	5517.2	2541.7	2516.5	2597.2	2458.5	2403.0	2430.8	2423.2	2362.7	2352.6
55°	12991.0	5454.1	2496.3	2516.5	2556.9	2274.4	2324.9	2365.2	2355.1	2312.3	2309.7
57.5°	13941.7	5466.7	2463.6	2524.1	2516.5	2181.1	2246.7	2294.6	2292.1	2279.5	2279.5
60°	14915.0	5471.8	2413.1	2521.6	2468.6	2108.0	2166.0	2234.1	2239.1	2246.7	2246.7
62.5°	15237.7	5252.4	2314.8	2476.2	2362.7	2037.4	2090.4	2183.7	2178.6	2198.8	2201.3
65°	14635.1	4644.7	2168.5	2372.8	2226.5	1987.0	2032.4	2118.1	2090.4	2143.3	2153.4
67.5°	13321.3	3842.8	1941.6	2186.2	2075.2	1934.0	1994.5	2027.3	1976.9	2080.3	2082.8
70°	11513.4	3000.6	1654.1	1921.4	1903.8	1878.6	1964.3	1913.9	1843.3	1969.3	1944.1
72.5°	9627.3	2292.1	1321.3	1570.9	1674.3	1795.3	1911.3	1767.6	1669.3	1707.1	1661.7
75°	7231.8	1694.5	1061.6	1230.5	1394.4	1676.8	1863.4	1591.1	1439.8	1404.5	1394.4
77.5°	3686.5	1107.0	794.3	920.4	1046.4	1515.5	1797.9	1384.3	1192.7	1137.2	1112.0
80°	1316.2	688.4	559.8	635.4	706.0	1303.6	1570.9	1144.8	925.4	915.3	925.4
82.5°	610.2	443.8	375.7	416.1	418.6	869.9	1197.7	854.8	703.5	1069.1	902.7
85°	262.2	221.9	211.8	206.8	191.6	388.3	673.3	458.9	716.1	320.2	295.0
87.5°	78.2	88.3	78.2	58.0	42.9	42.9	68.1	25.2	17.7	12.6	12.6
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)