

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: P527740

Luminaire Tested: **GALN-SA2D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12260 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

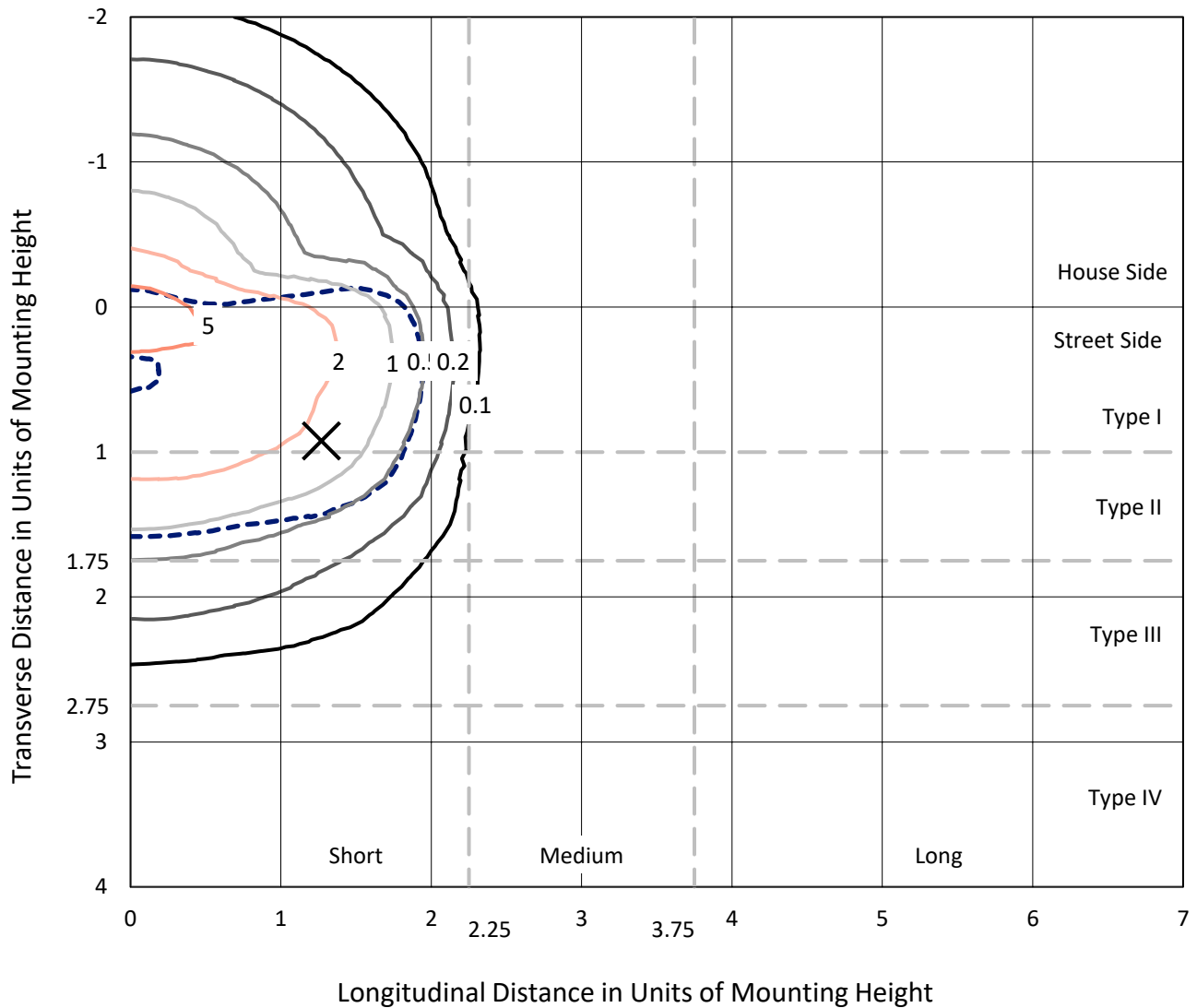
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

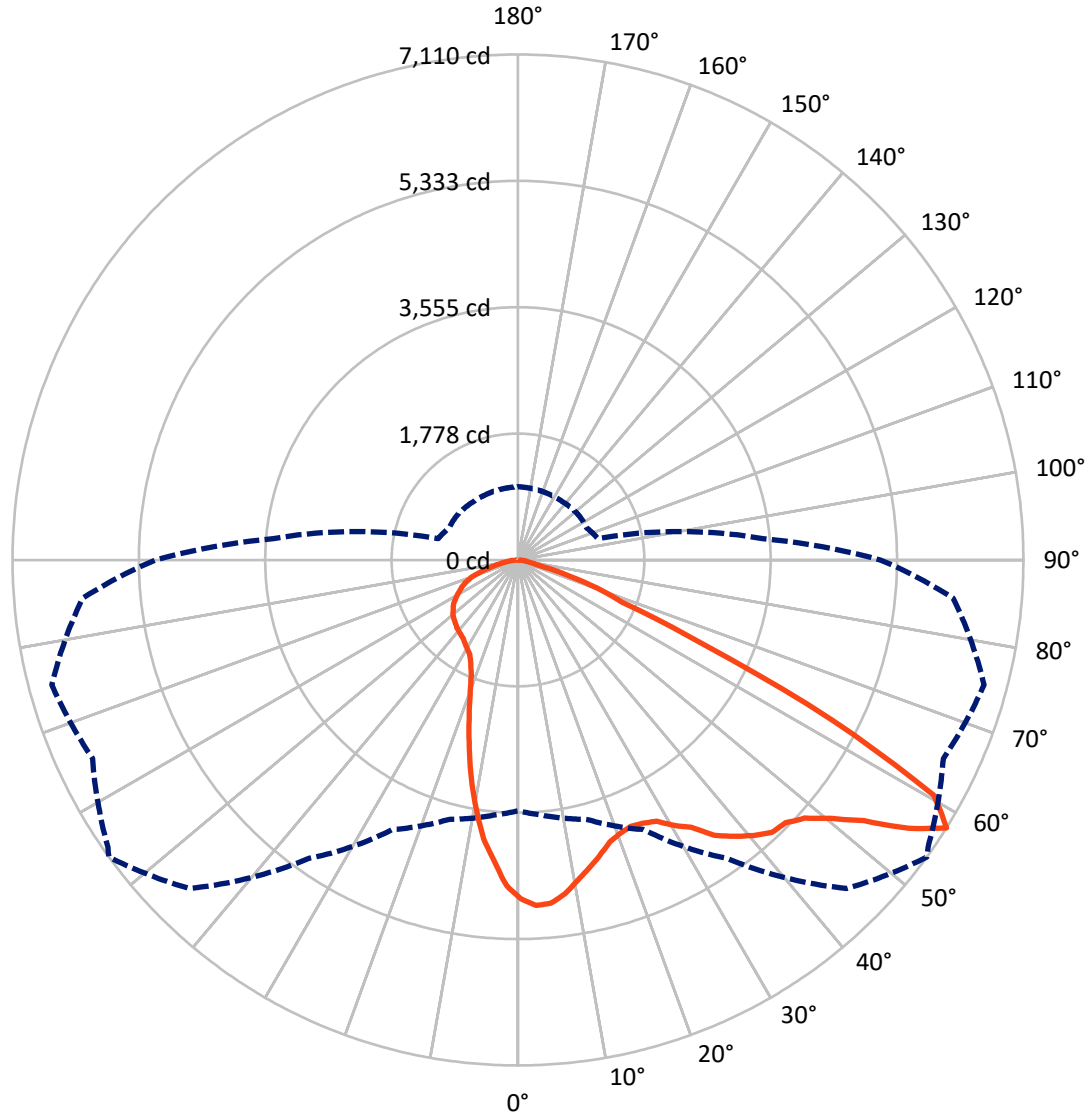
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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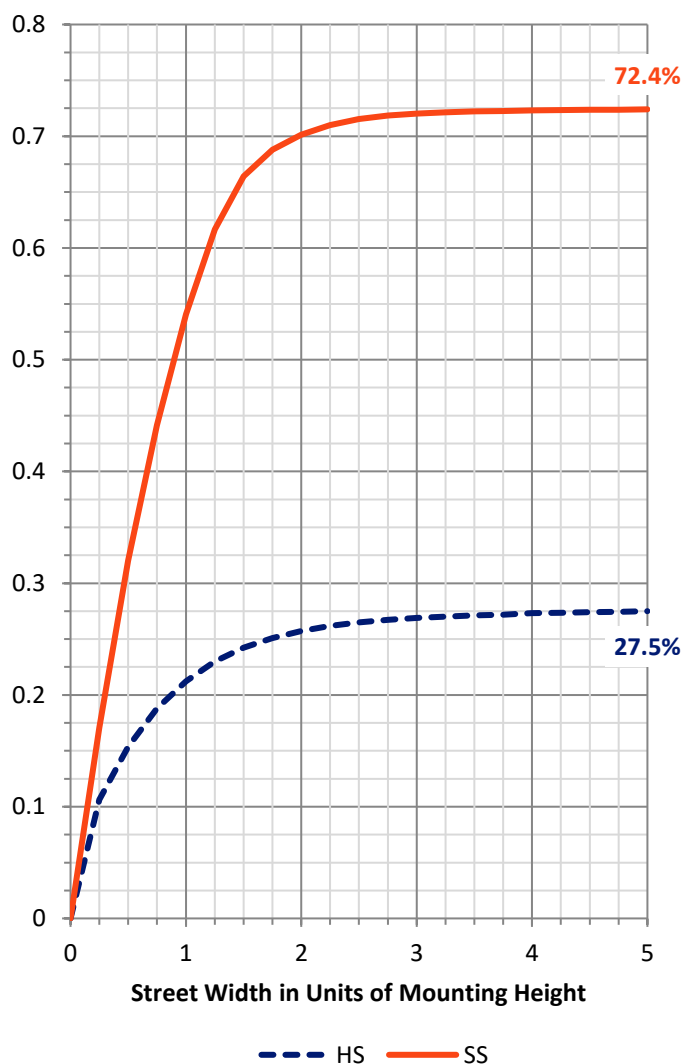
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3391.8	0.0	3391.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8868.2	0.0	8868.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	12260.0	0.0	12260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	3.4
10°-20°	951.5	7.8
20°-30°	1336.9	10.9
30°-40°	1869.0	15.2
40°-50°	2530.3	20.6
50°-60°	3082.0	25.1
60°-70°	1605.2	13.1
70°-80°	411.3	3.4
80°-90°	62.7	0.5
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°	12260.0	100.0
0°-180°	12260.0	100.0

Coefficient of Utilization



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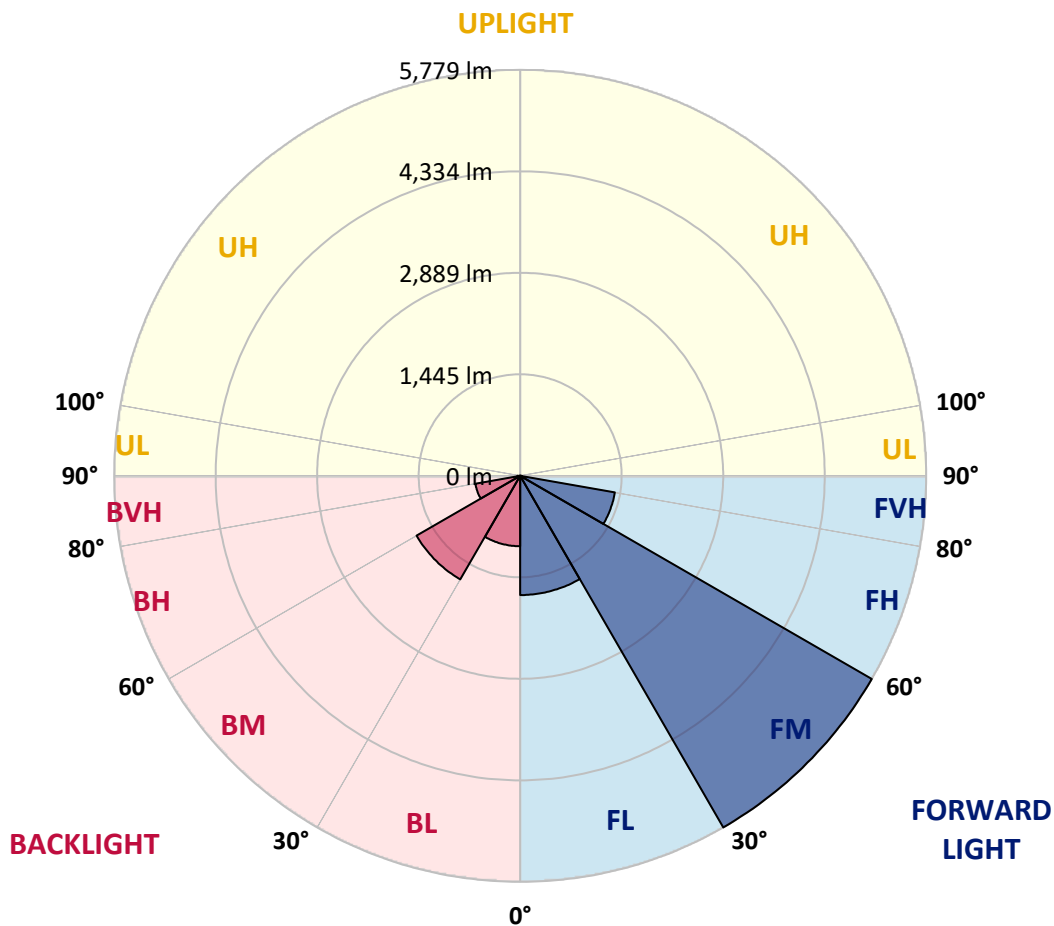
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.0	13.8			
FM (30°-60°)	5779.0	47.1			
FH (60°-80°)	1368.6	11.2			G1/1800
FVH (80°-90°)	23.7	0.2			G1/100
BL (0°-30°)	1002.4	8.2	B3/2500		
BM (30°-60°)	1702.3	13.9	B2/2500		
BH (60°-80°)	648.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3
2.5°	4900.8	4881.9	4885.1	4910.3	4878.8	4866.2	4866.2	4804.7	4809.4	4766.9	4755.9
5°	4787.4	4743.3	4773.2	4811.0	4817.3	4829.9	4850.4	4834.7	4790.5	4744.8	4670.8
7.5°	4491.1	4530.5	4541.6	4568.3	4625.1	4677.1	4741.7	4697.6	4696.0	4650.3	4606.2
10°	4231.1	4207.5	4267.4	4306.8	4401.3	4488.0	4587.3	4582.5	4606.2	4554.2	4478.5
12.5°	3972.7	3953.8	3982.1	4072.0	4204.3	4330.4	4448.6	4404.5	4530.5	4521.1	4358.8
15°	3698.5	3712.7	3753.6	3837.2	4010.5	4161.8	4311.5	4313.1	4424.9	4462.8	4245.3
17.5°	3506.2	3490.5	3542.5	3667.0	3821.4	4002.6	4172.8	4207.5	4379.2	4401.3	4210.6
20°	3362.8	3384.9	3452.7	3515.7	3693.8	3912.8	4105.0	4117.7	4369.8	4429.7	4155.5
22.5°	3328.2	3315.6	3337.6	3440.0	3586.6	3824.5	4068.8	4116.1	4368.2	4420.2	4051.5
25°	3291.9	3332.9	3331.3	3433.7	3540.9	3753.6	4098.7	4150.7	4451.7	4469.1	4065.7
27.5°	3373.9	3369.1	3413.3	3421.1	3553.5	3772.5	4161.8	4201.2	4590.4	4576.2	4076.7
30°	3455.8	3432.2	3459.0	3551.9	3613.4	3881.3	4335.1	4332.0	4770.0	4760.6	4111.4
32.5°	3556.7	3545.6	3563.0	3644.9	3748.9	4026.3	4481.7	4574.6	4952.8	5012.7	4231.1
35°	3575.6	3621.3	3662.2	3772.5	3920.7	4261.1	4757.4	4834.7	5164.0	5351.5	4459.6
37.5°	3695.3	3712.7	3808.8	4004.2	4139.7	4574.6	4932.4	4981.2	5356.3	5569.0	4700.7
40°	3823.0	3843.5	3988.4	4193.3	4379.2	4779.5	5096.2	5112.0	5417.7	5736.0	4858.3
42.5°	3996.3	4015.2	4158.6	4415.5	4664.5	4954.4	5241.2	5258.6	5413.0	5928.3	5108.9
45°	4176.0	4221.7	4390.3	4681.8	4905.6	5159.3	5274.3	5345.2	5457.1	6100.1	5312.1
47.5°	4428.1	4470.6	4609.3	4894.5	5156.1	5338.9	5427.2	5496.5	5562.7	6249.8	5442.9
50°	4696.0	4703.9	4872.5	5130.9	5323.2	5542.2	5712.4	5736.0	5701.4	6423.1	5665.1
52.5°	4893.0	4918.2	5049.0	5301.1	5587.9	5857.4	6090.6	6115.8	6048.1	6487.7	5740.8
55°	4566.8	4552.6	4765.3	5101.0	5766.0	6327.0	6665.8	6684.7	6300.2	6687.8	5988.2
57.5°	3529.9	3597.6	3778.8	4183.8	5123.0	6535.0	7110.2	7042.4	6602.7	6788.7	6145.8
60°	2565.5	2549.7	2671.0	2942.1	3860.8	5632.0	6722.5	6791.8	6355.3	6119.0	5067.9
62.5°	2089.6	2067.5	2076.9	2086.4	2491.4	3737.9	4976.5	4974.9	4894.5	4398.2	3418.0
65°	1670.4	1722.4	1727.1	1798.0	1850.0	2233.0	2883.8	3038.2	2645.8	2169.9	1574.3
67.5°	1259.1	1240.2	1303.2	1555.3	1653.0	1612.1	1574.3	1591.6	1131.4	816.3	769.0
70°	742.2	734.3	810.0	1084.2	1361.5	1281.2	1186.6	1188.2	776.9	570.5	635.1
72.5°	406.6	405.0	420.7	550.0	773.7	803.7	712.3	734.3	463.3	461.7	496.4
75°	226.9	222.2	217.5	242.7	278.9	294.7	301.0	304.1	318.3	356.1	370.3
77.5°	83.5	80.4	80.4	93.0	118.2	148.1	187.5	190.7	225.3	258.4	272.6
80°	28.4	31.5	42.5	58.3	78.8	105.6	127.6	130.8	159.2	181.2	185.9
82.5°	17.3	18.9	28.4	41.0	56.7	74.1	94.6	96.1	118.2	132.4	138.7
85°	7.9	9.5	15.8	25.2	36.2	48.9	50.4	50.4	48.9	50.4	47.3
87.5°	0.0	0.0	3.2	3.2	3.2	4.7	6.3	4.7	7.9	9.5	9.5
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°	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3	4765.3
2.5°	4722.8	4705.4	4651.9	4604.6	4590.4	4527.4	4434.4	4445.4	4377.7	4409.2	4376.1
5°	4658.2	4599.9	4462.8	4404.5	4251.6	4182.3	4135.0	4016.8	3961.6	3950.6	3903.3
7.5°	4492.7	4456.5	4284.7	4127.1	3964.8	3826.1	3648.1	3526.7	3440.0	3416.4	3347.1
10°	4361.9	4281.5	4043.6	3804.1	3572.4	3331.3	3099.7	2918.4	2830.2	2727.8	2693.1
12.5°	4232.7	4111.4	3789.9	3482.6	3183.2	2879.0	2598.6	2377.9	2185.7	2140.0	2124.2
15°	4152.3	3941.2	3563.0	3192.6	2767.2	2370.1	2089.6	1944.6	1826.4	1777.5	1812.2
17.5°	4046.7	3800.9	3345.5	2852.3	2384.2	2018.6	1783.8	1694.0	1651.5	1656.2	1642.0
20°	3914.4	3668.5	3060.3	2543.4	2042.3	1750.8	1616.8	1583.7	1590.0	1601.0	1596.3
22.5°	3819.8	3507.8	2853.8	2228.2	1764.9	1602.6	1547.5	1523.8	1544.3	1553.8	1545.9
25°	3747.3	3370.7	2603.3	1949.3	1604.2	1519.1	1493.9	1492.3	1523.8	1536.4	1528.6
27.5°	3681.1	3243.1	2354.3	1736.6	1497.0	1454.5	1446.6	1465.5	1486.0	1498.6	1509.6
30°	3641.8	3145.4	2121.1	1558.5	1443.5	1423.0	1408.8	1426.1	1437.2	1449.8	1443.5
32.5°	3679.6	3076.0	1895.7	1457.6	1399.3	1378.9	1397.8	1386.7	1405.6	1416.7	1399.3
35°	3797.8	3014.6	1735.0	1404.1	1348.9	1356.8	1359.9	1355.2	1363.1	1353.6	1374.1
37.5°	3914.4	2992.5	1586.9	1358.4	1325.3	1325.3	1322.1	1312.7	1328.4	1325.3	1334.7
40°	4062.5	3006.7	1460.8	1309.5	1303.2	1300.1	1287.5	1285.9	1279.6	1281.2	1284.3
42.5°	4191.7	3038.2	1388.3	1278.0	1282.7	1289.0	1265.4	1246.5	1254.4	1238.6	1238.6
45°	4328.8	3066.6	1323.7	1255.9	1251.2	1249.6	1230.7	1219.7	1213.4	1215.0	1229.2
47.5°	4544.7	3107.5	1274.8	1226.0	1229.2	1205.5	1200.8	1186.6	1192.9	1202.4	1203.9
50°	4697.6	3194.2	1237.0	1191.3	1202.4	1186.6	1158.2	1151.9	1151.9	1167.7	1164.5
52.5°	4804.7	3315.6	1200.8	1153.5	1158.2	1145.6	1136.2	1122.0	1112.5	1134.6	1145.6
55°	5132.5	3517.3	1191.3	1122.0	1120.4	1107.8	1090.5	1076.3	1071.6	1074.7	1096.8
57.5°	5101.0	3454.2	1161.4	1066.8	1063.7	1046.4	1029.0	1024.3	1022.7	1025.9	1032.2
60°	4141.3	2551.3	1036.9	1003.8	999.1	995.9	978.6	959.7	950.2	959.7	951.8
62.5°	2740.4	1708.2	914.0	928.2	931.3	923.4	895.1	876.2	879.3	890.3	873.0
65°	1345.8	1003.8	828.9	866.7	869.9	847.8	821.0	798.9	787.9	797.4	789.5
67.5°	769.0	767.4	759.6	798.9	797.4	775.3	732.8	713.9	694.9	698.1	693.4
70°	652.4	665.0	680.8	704.4	702.8	677.6	627.2	613.0	586.2	583.1	575.2
72.5°	513.7	535.8	570.5	587.8	573.6	542.1	509.0	485.4	461.7	447.5	452.3
75°	381.4	412.9	431.8	442.8	420.7	403.4	376.6	348.3	319.9	307.3	302.6
77.5°	277.3	286.8	304.1	312.0	297.8	280.5	264.7	236.4	209.6	192.3	187.5
80°	193.8	200.1	212.7	212.7	212.7	204.9	184.4	156.0	138.7	122.9	119.8
82.5°	135.5	141.8	154.4	148.1	146.6	137.1	124.5	102.4	83.5	72.5	69.3
85°	47.3	52.0	63.0	75.6	80.4	78.8	70.9	56.7	44.1	36.2	33.1
87.5°	11.0	11.0	12.6	11.0	11.0	12.6	11.0	11.0	11.0	7.9	6.3
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)