

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: P528884

Luminaire Tested: **GALN-SA4A-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528884
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-SA4A-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 13938 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

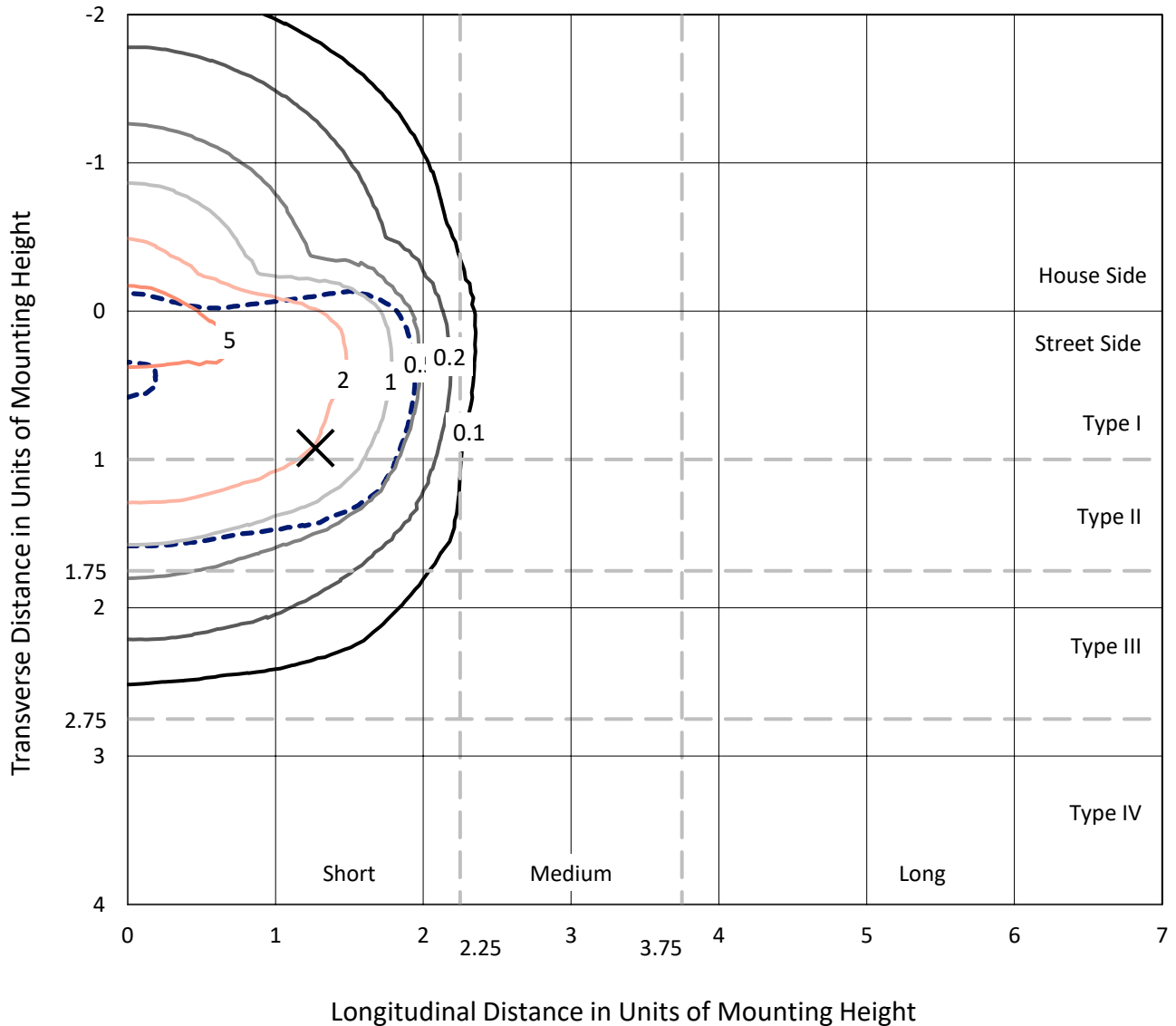
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

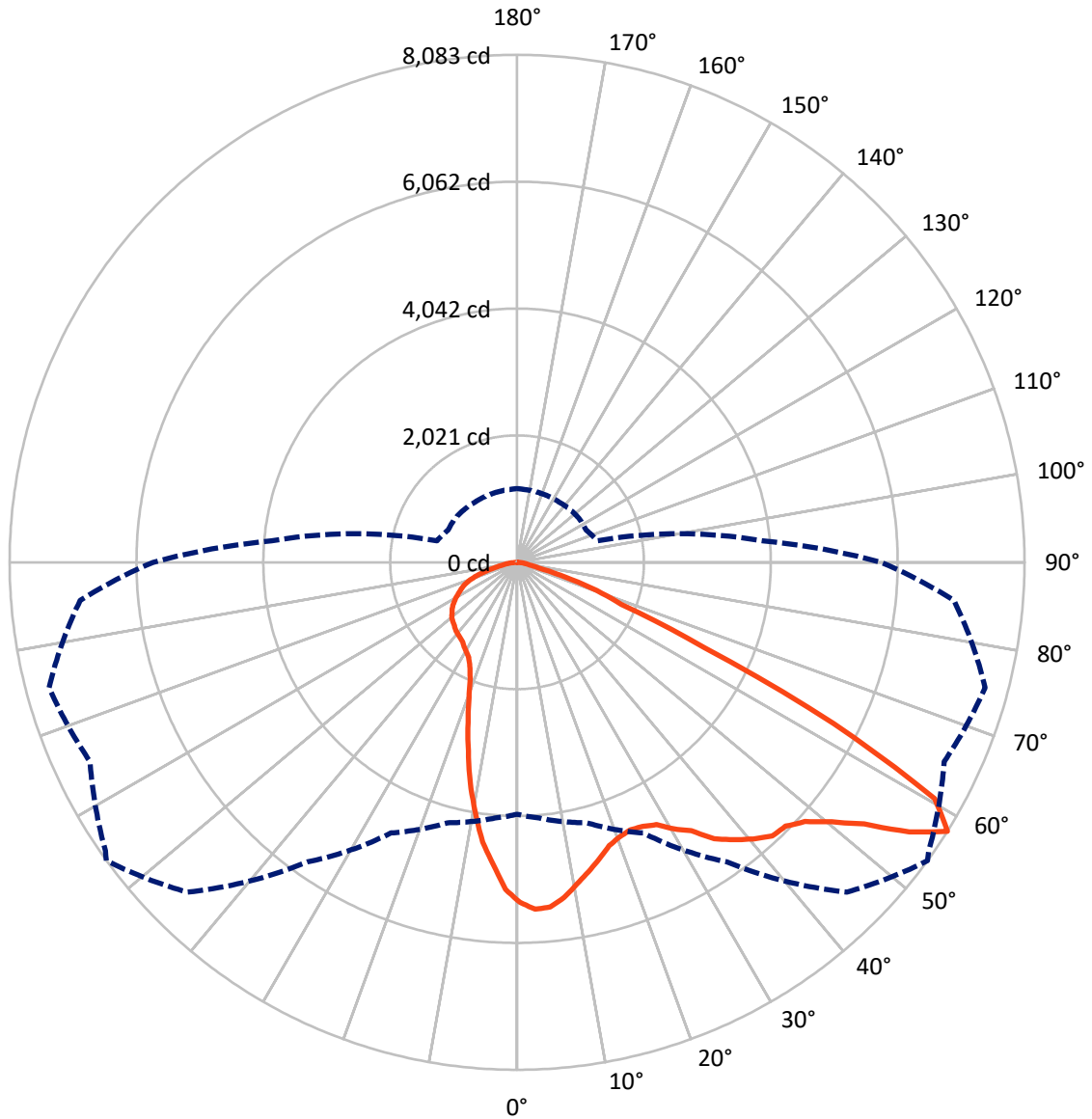
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P528884
CATALOG NUMBER: GALN-SA4A-730-U-SL3-GRSWH

Luminous Intensity Polar Plot



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



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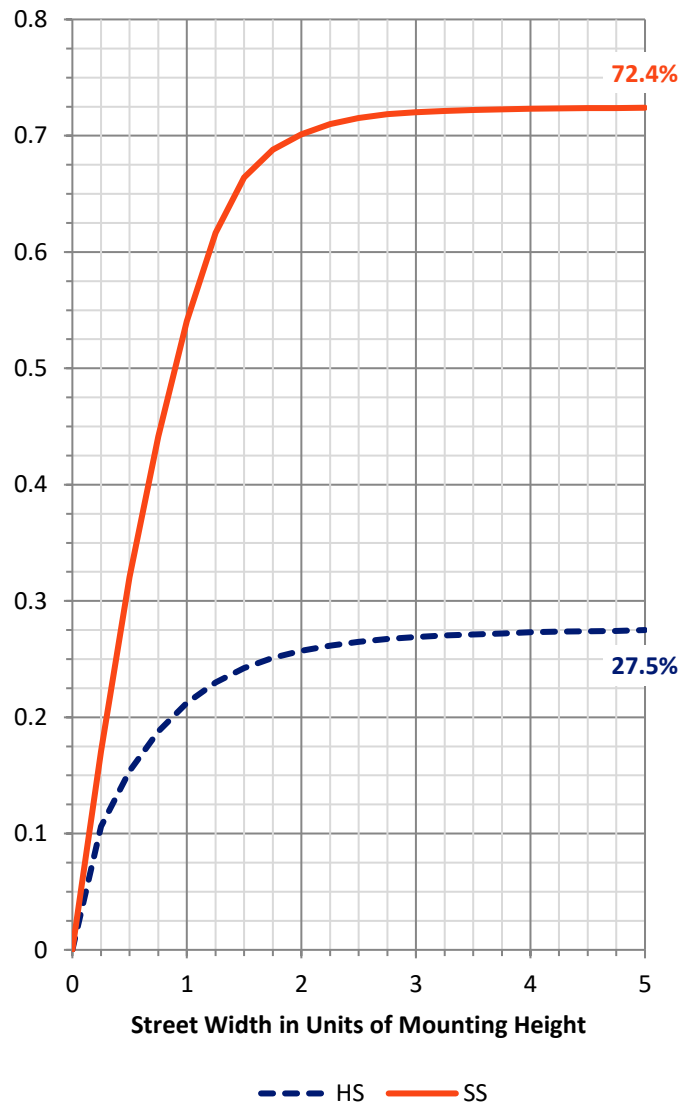
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3856.0	0.0	3856.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10082.0	0.0	10082.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	13938.0	0.0	13938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.2	3.4
10°-20°	1081.8	7.8
20°-30°	1519.9	10.9
30°-40°	2124.8	15.2
40°-50°	2876.6	20.6
50°-60°	3503.8	25.1
60°-70°	1824.9	13.1
70°-80°	467.6	3.4
80°-90°	71.3	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°	13938.0	100.0
0°-180°	13938.0	100.0

Coefficient of Utilization



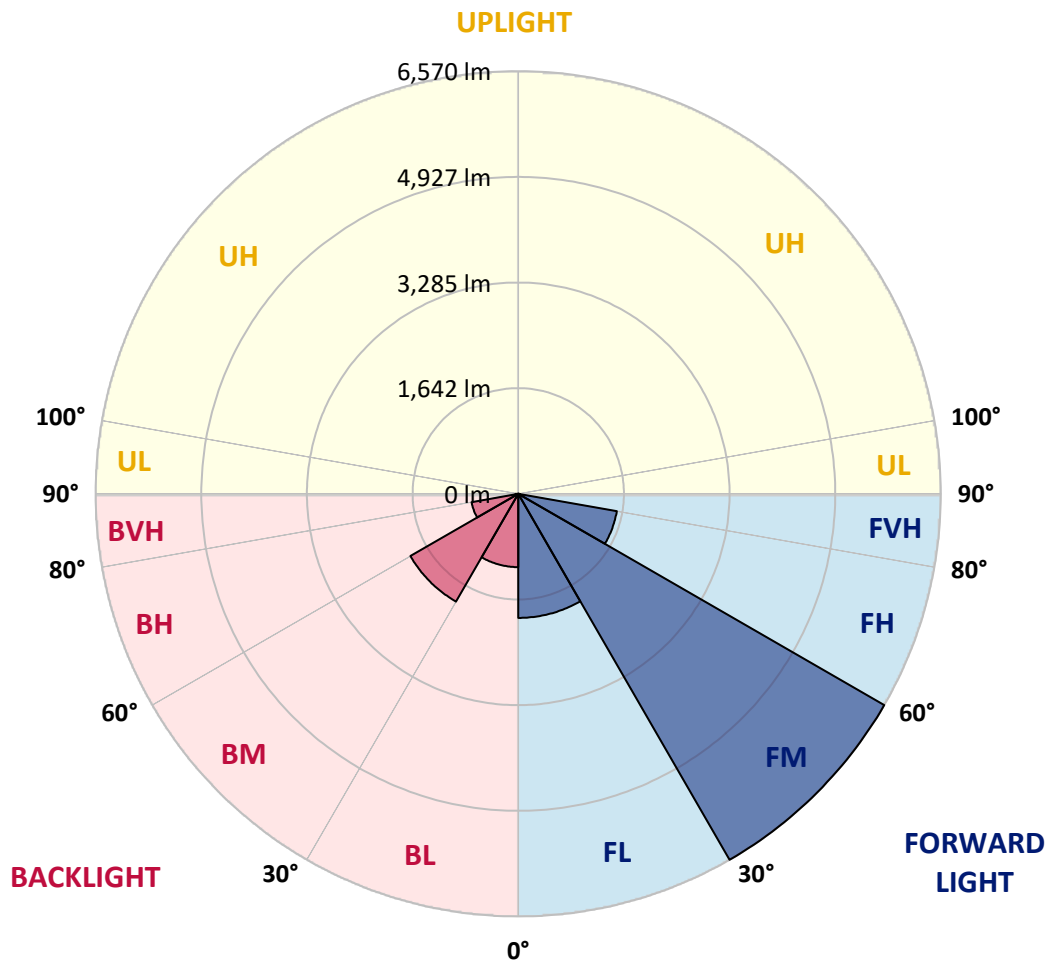
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 CATALOG NUMBER: GALN-SA4A-730-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.2	13.8			
FM (30°-60°)	6569.9	47.1			
FH (60°-80°)	1555.9	11.2			G1/1800
FVH (80°-90°)	27.0	0.2			G1/100
BL (0°-30°)	1139.7	8.2	B3/2500		
BM (30°-60°)	1935.3	13.9	B2/2500		
BH (60°-80°)	736.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	44.4	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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CATALOG NUMBER: GALN-SA4A-730-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5
2.5°	5571.6	5550.1	5553.7	5582.4	5546.5	5532.2	5532.2	5462.3	5467.7	5419.3	5406.8
5°	5442.6	5392.5	5426.5	5469.5	5476.7	5491.0	5514.3	5496.4	5446.2	5394.3	5310.1
7.5°	5105.8	5150.6	5163.1	5193.6	5258.1	5317.2	5390.7	5340.5	5338.7	5286.8	5236.6
10°	4810.2	4783.3	4851.4	4896.2	5003.7	5102.2	5215.1	5209.7	5236.6	5177.5	5091.5
12.5°	4516.4	4494.9	4527.2	4629.3	4779.8	4923.1	5057.4	5007.3	5150.6	5139.9	4955.3
15°	4204.7	4220.8	4267.4	4362.3	4559.4	4731.4	4901.6	4903.4	5030.6	5073.6	4826.3
17.5°	3986.1	3968.2	4027.3	4168.9	4344.4	4550.4	4743.9	4783.3	4978.6	5003.7	4786.9
20°	3823.1	3848.2	3925.2	3996.9	4199.3	4448.3	4666.9	4681.2	4967.9	5035.9	4724.2
22.5°	3783.7	3769.3	3794.4	3910.9	4077.5	4348.0	4625.7	4679.4	4966.1	5025.2	4606.0
25°	3742.5	3789.1	3787.3	3903.7	4025.5	4267.4	4659.7	4718.9	5061.0	5080.7	4622.1
27.5°	3835.6	3830.3	3880.4	3889.4	4039.9	4288.9	4731.4	4776.2	5218.7	5202.6	4634.6
30°	3928.8	3901.9	3932.4	4038.1	4107.9	4412.5	4928.5	4924.9	5422.9	5412.2	4674.1
32.5°	4043.4	4030.9	4050.6	4143.8	4262.0	4577.3	5095.1	5200.8	5630.7	5698.8	4810.2
35°	4064.9	4116.9	4163.5	4288.9	4457.3	4844.3	5408.6	5496.4	5870.8	6084.0	5070.0
37.5°	4201.1	4220.8	4330.1	4552.2	4706.3	5200.8	5607.4	5663.0	6089.4	6331.2	5344.1
40°	4346.2	4369.5	4534.3	4767.2	4978.6	5433.7	5793.8	5811.7	6159.2	6521.1	5523.2
42.5°	4543.3	4564.8	4727.8	5019.8	5302.9	5632.5	5958.6	5978.3	6153.9	6739.7	5808.1
45°	4747.5	4799.5	4991.2	5322.6	5577.0	5865.4	5996.2	6076.8	6204.0	6935.0	6039.2
47.5°	5034.2	5082.5	5240.2	5564.4	5861.8	6069.7	6170.0	6248.8	6324.0	7105.1	6187.9
50°	5338.7	5347.7	5539.4	5833.2	6051.7	6300.8	6494.2	6521.1	6481.7	7302.2	6440.5
52.5°	5562.7	5591.3	5740.0	6026.7	6352.7	6659.1	6924.2	6952.9	6875.8	7375.7	6526.5
55°	5191.8	5175.7	5417.5	5799.1	6555.2	7192.9	7578.1	7599.6	7162.5	7603.2	6807.8
57.5°	4013.0	4090.0	4296.1	4756.5	5824.2	7429.4	8083.3	8006.3	7506.4	7717.8	6986.9
60°	2916.6	2898.7	3036.6	3344.8	4389.2	6402.9	7642.6	7721.4	7225.2	6956.5	5761.5
62.5°	2375.5	2350.5	2361.2	2372.0	2832.4	4249.5	5657.6	5655.8	5564.4	5000.1	3885.8
65°	1899.0	1958.1	1963.5	2044.1	2103.2	2538.6	3278.5	3454.0	3008.0	2466.9	1789.7
67.5°	1431.4	1409.9	1481.6	1768.2	1879.3	1832.7	1789.7	1809.4	1286.3	928.0	874.3
70°	843.8	834.8	920.8	1232.6	1547.9	1456.5	1349.0	1350.8	883.2	648.5	722.0
72.5°	462.2	460.4	478.3	625.2	879.6	913.7	809.8	834.8	526.7	524.9	564.3
75°	258.0	252.6	247.2	275.9	317.1	335.0	342.2	345.8	361.9	404.9	421.0
77.5°	95.0	91.4	91.4	105.7	134.4	168.4	213.2	216.8	256.2	293.8	309.9
80°	32.2	35.8	48.4	66.3	89.6	120.0	145.1	148.7	180.9	206.0	211.4
82.5°	19.7	21.5	32.2	46.6	64.5	84.2	107.5	109.3	134.4	150.5	157.7
85°	9.0	10.7	17.9	28.7	41.2	55.5	57.3	57.3	55.5	57.3	53.7
87.5°	0.0	0.0	3.6	3.6	3.6	5.4	7.2	5.4	9.0	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528884

CATALOG NUMBER: GALN-SA4A-730-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5	5417.5
2.5°	5369.2	5349.5	5288.6	5234.8	5218.7	5147.0	5041.3	5053.9	4976.8	5012.7	4975.0
5°	5295.7	5229.4	5073.6	5007.3	4833.5	4754.7	4700.9	4566.6	4503.9	4491.3	4437.6
7.5°	5107.6	5066.4	4871.1	4692.0	4507.5	4349.8	4147.4	4009.4	3910.9	3884.0	3805.2
10°	4958.9	4867.5	4597.0	4324.7	4061.4	3787.3	3523.9	3317.9	3217.6	3101.1	3061.7
12.5°	4812.0	4674.1	4308.6	3959.2	3618.9	3273.1	2954.2	2703.4	2484.8	2432.9	2415.0
15°	4720.6	4480.6	4050.6	3629.6	3145.9	2694.4	2375.5	2210.7	2076.4	2020.8	2060.2
17.5°	4600.6	4321.1	3803.4	3242.6	2710.6	2294.9	2028.0	1925.9	1877.5	1882.9	1866.8
20°	4450.1	4170.6	3479.1	2891.5	2321.8	1990.4	1838.1	1800.5	1807.6	1820.2	1814.8
22.5°	4342.6	3987.9	3244.4	2533.2	2006.5	1822.0	1759.3	1732.4	1755.7	1766.4	1757.5
25°	4260.2	3832.1	2959.6	2216.1	1823.8	1727.0	1698.4	1696.6	1732.4	1746.7	1737.8
27.5°	4185.0	3686.9	2676.5	1974.2	1701.9	1653.6	1644.6	1666.1	1689.4	1703.7	1716.3
30°	4140.2	3575.9	2411.4	1771.8	1641.0	1617.7	1601.6	1621.3	1633.9	1648.2	1641.0
32.5°	4183.2	3497.0	2155.2	1657.2	1590.9	1567.6	1589.1	1576.5	1598.0	1610.6	1590.9
35°	4317.6	3427.2	1972.5	1596.2	1533.5	1542.5	1546.1	1540.7	1549.7	1538.9	1562.2
37.5°	4450.1	3402.1	1804.1	1544.3	1506.7	1506.7	1503.1	1492.3	1510.2	1506.7	1517.4
40°	4618.5	3418.2	1660.7	1488.7	1481.6	1478.0	1463.7	1461.9	1454.7	1456.5	1460.1
42.5°	4765.4	3454.0	1578.3	1452.9	1458.3	1465.5	1438.6	1417.1	1426.0	1408.1	1408.1
45°	4921.3	3486.3	1504.9	1427.8	1422.5	1420.7	1399.2	1386.6	1379.5	1381.3	1397.4
47.5°	5166.7	3532.9	1449.3	1393.8	1397.4	1370.5	1365.1	1349.0	1356.2	1366.9	1368.7
50°	5340.5	3631.4	1406.3	1354.4	1366.9	1349.0	1316.8	1309.6	1309.6	1327.5	1323.9
52.5°	5462.3	3769.3	1365.1	1311.4	1316.8	1302.4	1291.7	1275.6	1264.8	1289.9	1302.4
55°	5835.0	3998.7	1354.4	1275.6	1273.8	1259.4	1239.7	1223.6	1218.2	1221.8	1246.9
57.5°	5799.1	3927.0	1320.3	1212.9	1209.3	1189.6	1169.9	1164.5	1162.7	1166.3	1173.4
60°	4708.1	2900.5	1178.8	1141.2	1135.8	1132.2	1112.5	1091.0	1080.3	1091.0	1082.1
62.5°	3115.4	1942.0	1039.1	1055.2	1058.8	1049.8	1017.6	996.1	999.7	1012.2	992.5
65°	1530.0	1141.2	942.3	985.3	988.9	963.8	933.4	908.3	895.8	906.5	897.5
67.5°	874.3	872.5	863.5	908.3	906.5	881.4	833.1	811.6	790.1	793.6	788.3
70°	741.7	756.0	773.9	800.8	799.0	770.4	713.0	696.9	666.4	662.9	653.9
72.5°	584.0	609.1	648.5	668.2	652.1	616.3	578.7	551.8	524.9	508.8	514.2
75°	433.5	469.4	490.9	503.4	478.3	458.6	428.2	395.9	363.7	349.3	344.0
77.5°	315.3	326.1	345.8	354.7	338.6	318.9	301.0	268.7	238.3	218.6	213.2
80°	220.4	227.5	241.9	241.9	241.9	232.9	209.6	177.4	157.7	139.7	136.2
82.5°	154.1	161.2	175.6	168.4	166.6	155.9	141.5	116.4	95.0	82.4	78.8
85°	53.7	59.1	71.7	86.0	91.4	89.6	80.6	64.5	50.2	41.2	37.6
87.5°	12.5	12.5	14.3	12.5	12.5	14.3	12.5	12.5	12.5	9.0	7.2
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)