

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: P528908

Luminaire Tested: **GALN-SA4A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14284 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

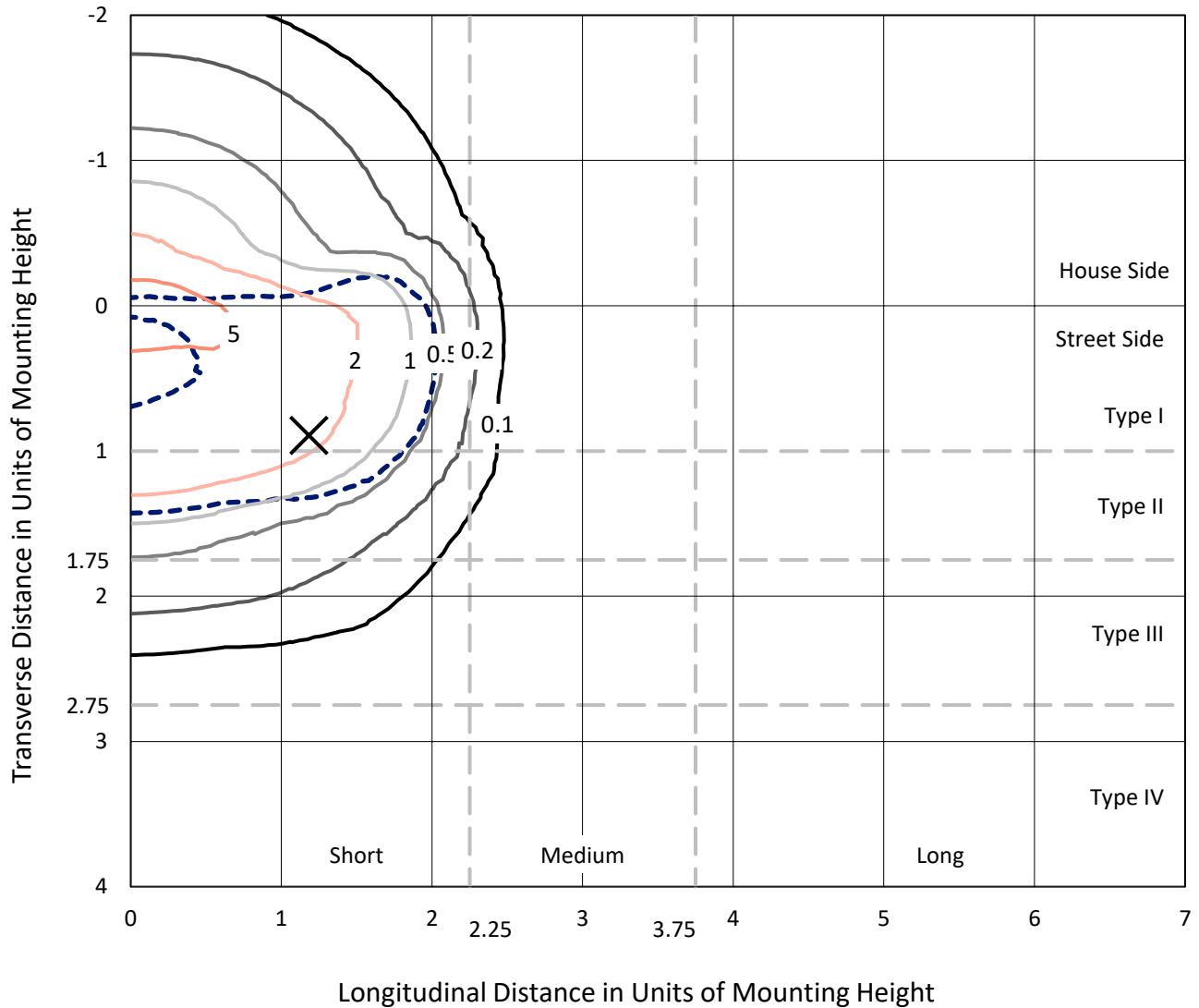
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

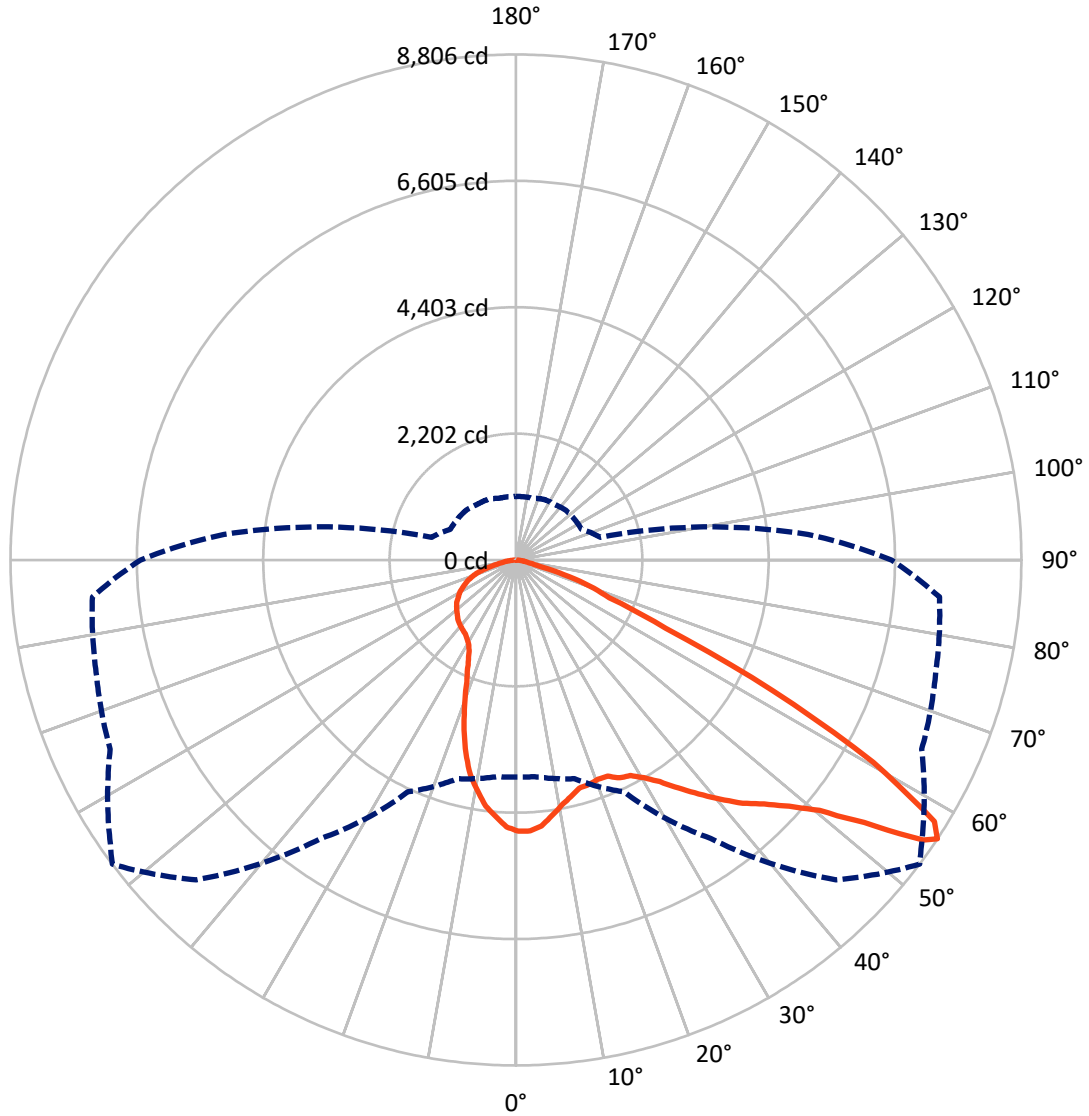
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4168.4	0.0	4168.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10115.6	0.0	10115.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	14284.0	0.0	14284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	2.9
10°-20°	1044.9	7.3
20°-30°	1540.8	10.8
30°-40°	2201.5	15.4
40°-50°	3030.0	21.2
50°-60°	3580.7	25.1
60°-70°	1908.3	13.4
70°-80°	484.1	3.4
80°-90°	75.5	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°	14284.0	100.0
0°-180°	14284.0	100.0

Coefficient of Utilization



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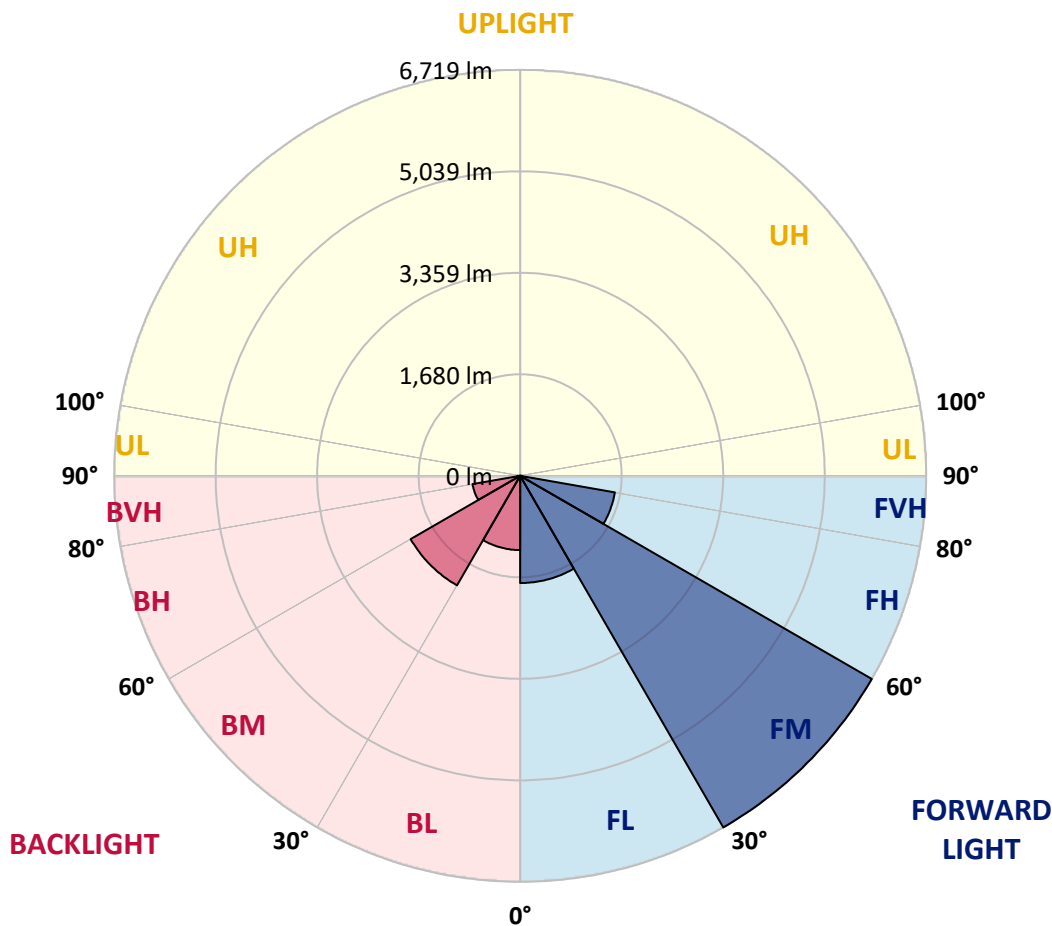
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.6	12.4			
FM (30°-60°)	6718.9	47.0			
FH (60°-80°)	1591.8	11.1			G1/1800
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	1229.4	8.6	B3/2500		
BM (30°-60°)	2093.2	14.7	B2/2500		
BH (60°-80°)	800.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	45.1	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°	53°	55°	65°	75°	85°
0°	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7
2.5°	4667.1	4626.8	4650.6	4641.4	4716.5	4738.5	4727.5	4736.7	4778.8	4758.7	4716.5
5°	4361.1	4417.9	4428.9	4456.4	4500.3	4586.4	4654.2	4672.6	4692.7	4786.2	4777.0
7.5°	4082.5	4121.0	4100.9	4181.5	4276.8	4416.0	4498.5	4513.2	4698.2	4749.5	4788.0
10°	3906.6	3868.2	3959.8	3981.8	4089.9	4249.3	4348.2	4408.7	4577.3	4780.7	4804.5
12.5°	3743.6	3730.7	3785.7	3848.0	3968.9	4133.9	4234.6	4258.5	4518.7	4733.0	4844.8
15°	3622.6	3608.0	3662.9	3708.7	3849.8	3996.4	4124.7	4192.5	4454.5	4705.6	4810.0
17.5°	3527.3	3525.5	3556.7	3639.1	3783.9	3906.6	4113.7	4117.4	4421.5	4747.7	4839.3
20°	3521.8	3520.0	3525.5	3617.1	3749.1	3899.3	4078.9	4111.9	4421.5	4718.4	4841.2
22.5°	3567.6	3538.3	3571.3	3629.9	3725.2	3912.1	4091.7	4165.0	4527.8	4863.1	4923.6
25°	3640.9	3648.3	3666.6	3686.8	3741.7	3941.5	4205.3	4265.8	4652.4	4987.7	5037.2
27.5°	3774.7	3771.0	3778.4	3789.4	3837.0	3968.9	4251.1	4406.9	4912.6	5209.5	5160.0
30°	3970.8	3957.9	3987.3	4025.7	3981.8	4056.9	4403.2	4520.5	5154.5	5433.0	5297.4
32.5°	4148.5	4196.2	4251.1	4267.6	4214.5	4229.1	4604.8	4723.9	5356.0	5707.9	5466.0
35°	4370.2	4408.7	4482.0	4533.3	4524.1	4480.2	4879.6	5037.2	5647.4	5909.4	5643.7
37.5°	4586.4	4632.3	4753.2	4905.3	4821.0	4800.8	5172.8	5302.9	5737.2	6017.5	5773.8
40°	4934.6	4932.8	5141.7	5220.5	5295.6	5260.8	5477.0	5521.0	5784.8	5993.7	5777.5
42.5°	5343.2	5317.6	5530.1	5652.9	5750.0	5753.7	5794.0	5779.3	5806.8	5872.8	5739.0
45°	5731.7	5786.7	6001.0	6220.9	6318.0	6329.0	6061.5	6034.0	5845.3	5838.0	5665.7
47.5°	6206.3	6219.1	6395.0	6684.5	6909.9	6832.9	6407.8	6347.4	6013.9	6070.7	5788.5
50°	6233.8	6329.0	6486.6	6827.5	7520.1	7499.9	6856.8	6743.2	6285.1	6400.5	6131.1
52.5°	5658.4	5636.4	5823.3	6380.4	7474.3	8163.3	7600.7	7329.5	6867.8	6779.8	6686.4
55°	4311.6	4362.9	4527.8	5090.4	6490.3	8172.4	8614.0	8392.3	7490.8	7340.5	7232.4
56°	3782.0	3789.4	3945.1	4458.2	5922.3	7881.1	8806.4	8626.8	7800.4	7571.4	7406.5
57.5°	3135.2	3093.1	3173.7	3454.0	4998.7	7265.4	8595.7	8771.6	8163.3	7820.6	7591.6
60°	2468.2	2459.1	2426.1	2477.4	3159.0	5473.3	7155.4	7551.2	8126.6	7586.1	7270.9
62.5°	2015.6	1969.8	2035.8	2109.1	2195.2	3395.4	5028.1	5260.8	6451.8	6056.0	5462.3
65°	1563.0	1541.0	1623.5	1861.7	1913.0	2156.7	2864.0	3043.6	3809.5	3741.7	3294.6
67.5°	1075.6	1079.3	1150.7	1513.5	1773.7	1751.8	1753.6	1847.0	1988.1	1476.9	1286.3
70°	681.6	679.8	718.3	974.8	1427.4	1442.1	1368.8	1341.3	1271.7	769.6	815.4
72.5°	437.9	425.1	445.3	538.7	738.4	853.9	879.5	896.0	736.6	604.7	656.0
75°	247.4	234.5	227.2	251.0	291.3	337.2	370.1	381.1	426.9	458.1	485.6
77.5°	75.1	67.8	82.5	109.9	144.8	194.2	236.4	243.7	287.7	324.3	351.8
80°	33.0	36.6	51.3	73.3	102.6	137.4	166.7	177.7	207.1	234.5	241.9
82.5°	20.2	22.0	34.8	49.5	71.5	97.1	119.1	122.8	152.1	174.1	179.6
85°	7.3	9.2	18.3	29.3	45.8	62.3	62.3	67.8	62.3	62.3	67.8
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	7.3	7.3	9.2	11.0	12.8
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°	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7	4725.7
2.5°	4738.5	4729.4	4714.7	4661.6	4656.1	4639.6	4548.0	4533.3	4548.0	4504.0	4507.7
5°	4729.4	4756.9	4646.9	4593.8	4494.8	4423.4	4340.9	4298.8	4223.6	4176.0	4229.1
7.5°	4769.7	4758.7	4621.3	4505.8	4357.4	4176.0	4031.2	3948.8	3816.8	3780.2	3807.7
10°	4755.0	4696.4	4535.1	4383.1	4102.7	3943.3	3708.7	3481.5	3356.9	3292.8	3283.6
12.5°	4734.9	4718.4	4449.0	4187.0	3892.0	3556.7	3226.8	3012.4	2809.0	2721.1	2733.9
15°	4758.7	4619.4	4287.8	3956.1	3564.0	3124.2	2768.7	2492.0	2350.9	2294.1	2294.1
17.5°	4747.7	4571.8	4210.8	3697.7	3201.2	2680.8	2290.5	2123.7	2065.1	2065.1	2081.6
20°	4753.2	4602.9	4055.1	3439.4	2772.4	2257.5	1973.5	1913.0	1938.7	1947.8	1957.0
22.5°	4784.3	4500.3	3903.0	3155.4	2374.8	1931.3	1792.1	1793.9	1839.7	1889.2	1880.0
25°	4822.8	4460.0	3717.9	2873.2	2070.6	1771.9	1727.9	1722.4	1757.3	1782.9	1786.6
27.5°	4789.8	4390.4	3529.2	2521.4	1821.4	1665.6	1656.5	1660.1	1671.1	1722.4	1705.9
30°	4898.0	4410.5	3292.8	2226.3	1684.0	1630.8	1619.8	1614.3	1630.8	1645.5	1632.7
32.5°	5031.7	4339.1	3116.9	1942.3	1616.2	1605.2	1583.2	1575.8	1585.0	1570.4	1577.7
35°	5090.4	4326.3	2887.8	1738.9	1563.0	1553.9	1541.0	1539.2	1541.0	1528.2	1517.2
37.5°	5123.3	4386.7	2625.8	1645.5	1530.0	1539.2	1509.9	1506.2	1473.2	1480.6	1486.1
40°	5180.1	4293.3	2413.2	1555.7	1509.9	1491.6	1465.9	1460.4	1438.4	1425.6	1438.4
42.5°	5097.7	4265.8	2204.4	1517.2	1480.6	1460.4	1442.1	1410.9	1403.6	1392.6	1385.3
45°	5031.7	4108.2	2017.5	1469.6	1445.7	1434.8	1399.9	1367.0	1339.5	1350.5	1334.0
47.5°	5081.2	4053.2	1832.4	1429.3	1398.1	1385.3	1350.5	1324.8	1297.3	1284.5	1280.8
50°	5279.1	4155.8	1676.6	1399.9	1357.8	1350.5	1304.7	1275.3	1249.7	1240.5	1244.2
52.5°	5751.8	4436.2	1570.4	1339.5	1319.3	1286.3	1260.7	1224.0	1207.5	1178.2	1196.5
55°	6351.0	4892.5	1542.9	1282.7	1271.7	1242.4	1207.5	1180.1	1148.9	1125.1	1119.6
56°	6543.4	5110.5	1520.9	1260.7	1242.4	1225.9	1180.1	1163.6	1114.1	1108.6	1104.9
57.5°	6699.2	5302.9	1524.5	1218.5	1200.2	1185.6	1158.1	1117.8	1084.8	1064.6	1073.8
60°	6347.4	4963.9	1454.9	1154.4	1150.7	1123.2	1084.8	1066.4	1026.1	1002.3	996.8
62.5°	4718.4	3369.7	1180.1	1071.9	1070.1	1040.8	996.8	976.7	969.3	936.3	936.3
65°	2717.4	2112.7	1020.6	1004.1	989.5	960.2	916.2	899.7	881.4	870.4	861.2
67.5°	1159.9	1095.8	927.2	925.4	908.9	872.2	828.2	802.6	778.8	756.8	767.8
70°	841.1	853.9	837.4	828.2	808.1	762.3	723.8	692.6	656.0	641.3	652.3
72.5°	667.0	694.5	718.3	720.1	696.3	643.2	601.0	558.9	518.6	498.4	507.6
75°	505.7	524.1	547.9	553.4	518.6	481.9	441.6	397.6	366.5	342.7	346.3
77.5°	364.6	361.0	383.0	379.3	362.8	337.2	300.5	260.2	225.4	203.4	205.2
80°	249.2	254.7	267.5	265.7	245.5	229.0	201.6	168.6	142.9	124.6	120.9
82.5°	174.1	183.2	194.2	185.1	168.6	152.1	131.9	108.1	88.0	73.3	69.6
85°	62.3	71.5	82.5	88.0	93.5	89.8	75.1	60.5	44.0	36.6	34.8
87.5°	12.8	14.7	16.5	16.5	16.5	14.7	12.8	12.8	11.0	5.5	5.5
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)