

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: P527766

Luminaire Tested: **GALN-SA2D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527766
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-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 13161 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

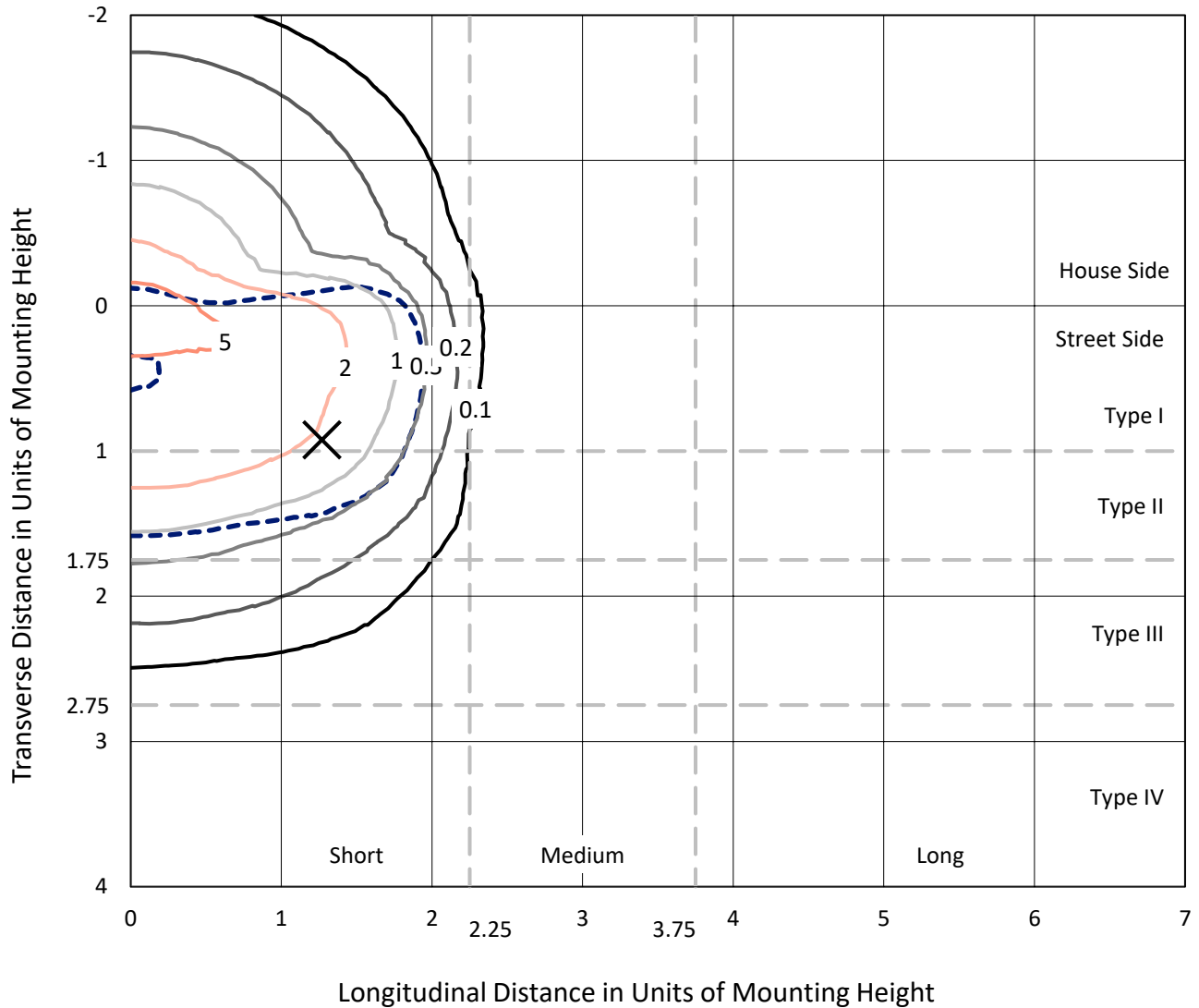
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

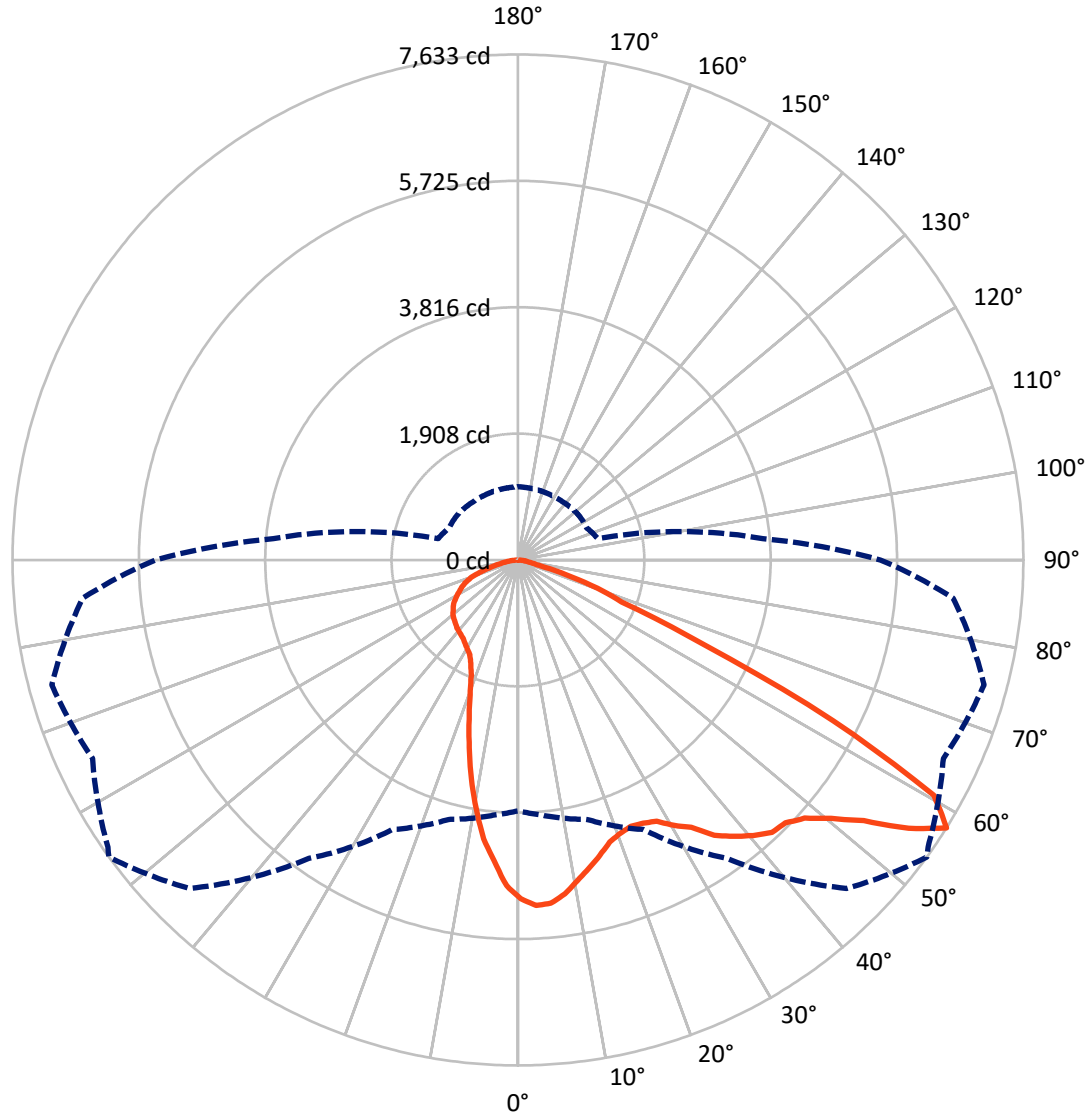
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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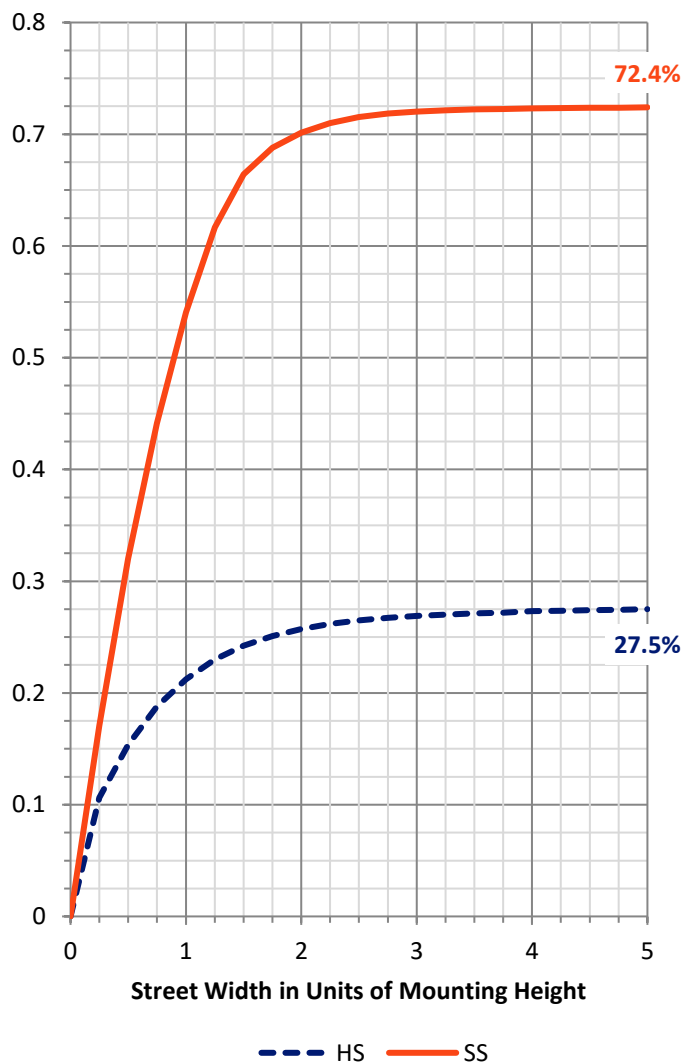
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3641.1	0.0	3641.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	9519.9	0.0	9519.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	13161.0	0.0	13161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	3.4
10°-20°	1021.5	7.8
20°-30°	1435.2	10.9
30°-40°	2006.4	15.2
40°-50°	2716.2	20.6
50°-60°	3308.5	25.1
60°-70°	1723.2	13.1
70°-80°	441.6	3.4
80°-90°	67.3	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°	13161.0	100.0
0°-180°	13161.0	100.0

Coefficient of Utilization



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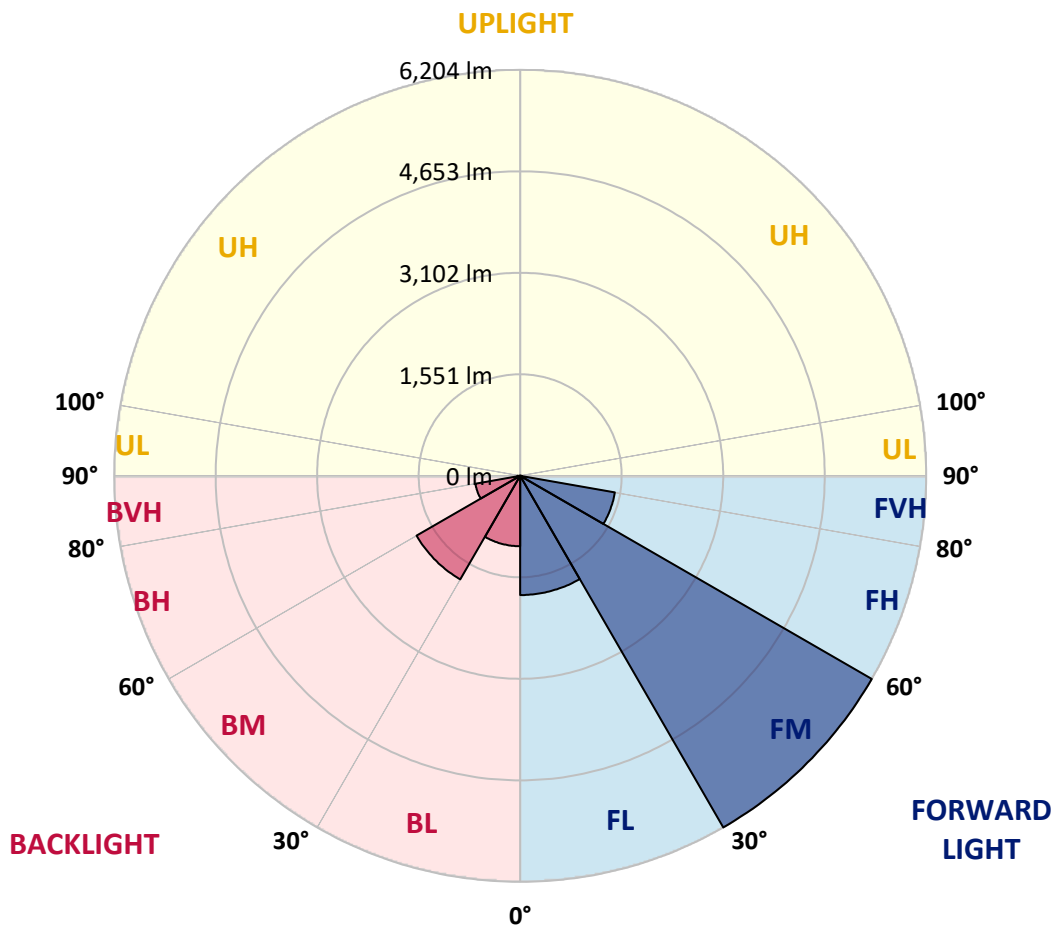
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.7	13.8			
FM (30°-60°)	6203.7	47.1			
FH (60°-80°)	1469.1	11.2			G1/1800
FVH (80°-90°)	25.4	0.2			G1/100
BL (0°-30°)	1076.1	8.2	B3/2500		
BM (30°-60°)	1827.4	13.9	B2/2500		
BH (60°-80°)	695.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	41.9	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°	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5
2.5°	5261.0	5240.7	5244.1	5271.2	5237.3	5223.8	5223.8	5157.8	5162.9	5117.2	5105.4
5°	5139.2	5091.8	5124.0	5164.6	5171.4	5184.9	5206.9	5190.0	5142.6	5093.5	5014.0
7.5°	4821.2	4863.5	4875.3	4904.1	4965.0	5020.8	5090.2	5042.8	5041.1	4992.0	4944.7
10°	4542.1	4516.7	4581.0	4623.3	4724.8	4817.8	4924.4	4919.3	4944.7	4888.8	4807.7
12.5°	4264.6	4244.3	4274.8	4371.2	4513.3	4648.6	4775.5	4728.1	4863.5	4853.3	4679.1
15°	3970.3	3985.5	4029.5	4119.2	4305.2	4467.6	4628.3	4630.0	4750.1	4790.7	4557.3
17.5°	3763.9	3747.0	3802.8	3936.5	4102.2	4296.8	4479.5	4516.7	4701.1	4724.8	4520.1
20°	3610.0	3633.7	3706.4	3774.1	3965.2	4200.4	4406.7	4420.3	4690.9	4755.2	4460.9
22.5°	3572.8	3559.2	3582.9	3692.9	3850.2	4105.6	4367.8	4418.6	4689.2	4745.1	4349.2
25°	3533.8	3577.8	3576.1	3686.1	3801.1	4029.5	4400.0	4455.8	4778.9	4797.5	4364.4
27.5°	3621.8	3616.7	3664.1	3672.6	3814.7	4049.8	4467.6	4509.9	4927.8	4912.5	4376.3
30°	3709.8	3684.4	3713.2	3813.0	3878.9	4166.5	4653.7	4650.3	5120.6	5110.5	4413.5
32.5°	3818.0	3806.2	3824.8	3912.8	4024.4	4322.1	4811.0	4910.8	5316.8	5381.1	4542.1
35°	3838.3	3887.4	3931.4	4049.8	4208.8	4574.2	5107.1	5190.0	5543.5	5744.8	4787.4
37.5°	3966.9	3985.5	4088.7	4298.5	4443.9	4910.8	5294.8	5347.3	5749.9	5978.3	5046.2
40°	4103.9	4125.9	4281.5	4501.5	4701.1	5130.8	5470.8	5487.7	5815.9	6157.6	5215.3
42.5°	4290.0	4310.3	4464.2	4740.0	5007.3	5318.5	5626.4	5645.0	5810.8	6364.0	5484.3
45°	4482.9	4531.9	4712.9	5025.9	5266.1	5538.4	5661.9	5738.1	5858.2	6548.4	5702.5
47.5°	4753.5	4799.2	4948.1	5254.2	5535.1	5731.3	5826.0	5900.5	5971.5	6709.1	5842.9
50°	5041.1	5049.6	5230.6	5508.0	5714.4	5949.5	6132.2	6157.6	6120.4	6895.1	6081.5
52.5°	5252.6	5279.6	5420.0	5690.7	5998.6	6287.8	6538.2	6565.3	6492.5	6964.5	6162.7
55°	4902.4	4887.2	5115.5	5475.9	6189.7	6791.9	7155.7	7176.0	6763.2	7179.3	6428.2
57.5°	3789.3	3862.0	4056.6	4491.3	5499.5	7015.2	7632.7	7560.0	7088.0	7287.6	6597.4
60°	2754.0	2737.1	2867.3	3158.3	4144.5	6045.9	7216.6	7291.0	6822.4	6568.7	5440.3
62.5°	2243.1	2219.4	2229.6	2239.7	2674.5	4012.6	5342.2	5340.5	5254.2	4721.4	3669.2
65°	1793.1	1849.0	1854.0	1930.2	1986.0	2397.1	3095.7	3261.5	2840.3	2329.4	1690.0
67.5°	1351.6	1331.3	1399.0	1669.7	1774.5	1730.6	1690.0	1708.6	1214.6	876.3	825.5
70°	796.8	788.3	869.5	1163.9	1461.6	1375.3	1273.8	1275.5	834.0	612.4	681.7
72.5°	436.4	434.8	451.7	590.4	830.6	862.7	764.6	788.3	497.3	495.7	532.9
75°	243.6	238.5	233.4	260.5	299.4	316.3	323.1	326.5	341.7	382.3	397.5
77.5°	89.7	86.3	86.3	99.8	126.9	159.0	201.3	204.7	241.9	277.4	292.7
80°	30.4	33.8	45.7	62.6	84.6	113.3	137.0	140.4	170.9	194.5	199.6
82.5°	18.6	20.3	30.4	44.0	60.9	79.5	101.5	103.2	126.9	142.1	148.9
85°	8.5	10.1	16.9	27.1	38.9	52.4	54.1	54.1	52.4	54.1	50.7
87.5°	0.0	0.0	3.4	3.4	3.4	5.1	6.8	5.1	8.5	10.1	10.1
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°	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5	5115.5
2.5°	5069.9	5051.2	4993.7	4943.0	4927.8	4860.1	4760.3	4772.1	4699.4	4733.2	4697.7
5°	5000.5	4937.9	4790.7	4728.1	4564.1	4489.6	4438.9	4312.0	4252.8	4241.0	4190.2
7.5°	4822.9	4784.0	4599.6	4430.4	4256.2	4107.3	3916.2	3785.9	3692.9	3667.5	3593.1
10°	4682.5	4596.2	4340.8	4083.6	3835.0	3576.1	3327.5	3132.9	3038.2	2928.2	2891.0
12.5°	4543.8	4413.5	4068.4	3738.5	3417.1	3090.6	2789.5	2552.7	2346.3	2297.3	2280.3
15°	4457.5	4230.8	3824.8	3427.3	2970.5	2544.2	2243.1	2087.5	1960.6	1908.2	1945.4
17.5°	4344.1	4080.2	3591.4	3061.9	2559.5	2167.0	1914.9	1818.5	1772.8	1777.9	1762.7
20°	4202.0	3938.1	3285.2	2730.3	2192.4	1879.4	1735.6	1700.1	1706.9	1718.7	1713.6
22.5°	4100.5	3765.6	3063.6	2392.0	1894.6	1720.4	1661.2	1635.8	1657.8	1668.0	1659.5
25°	4022.7	3618.4	2794.6	2092.6	1722.1	1630.7	1603.7	1602.0	1635.8	1649.4	1640.9
27.5°	3951.7	3481.4	2527.3	1864.2	1607.1	1561.4	1552.9	1573.2	1595.2	1608.8	1620.6
30°	3909.4	3376.5	2277.0	1673.0	1549.5	1527.6	1512.3	1530.9	1542.8	1556.3	1549.5
32.5°	3950.0	3302.1	2035.0	1564.8	1502.2	1480.2	1500.5	1488.6	1508.9	1520.8	1502.2
35°	4076.9	3236.1	1862.5	1507.3	1448.0	1456.5	1459.9	1454.8	1463.3	1453.1	1475.1
37.5°	4202.0	3212.4	1703.5	1458.2	1422.7	1422.7	1419.3	1409.1	1426.1	1422.7	1432.8
40°	4361.1	3227.7	1568.2	1405.8	1399.0	1395.6	1382.1	1380.4	1373.6	1375.3	1378.7
42.5°	4499.8	3261.5	1490.3	1371.9	1377.0	1383.8	1358.4	1338.1	1346.5	1329.6	1329.6
45°	4646.9	3291.9	1421.0	1348.2	1343.2	1341.5	1321.2	1309.3	1302.6	1304.3	1319.5
47.5°	4878.7	3335.9	1368.5	1316.1	1319.5	1294.1	1289.0	1273.8	1280.6	1290.7	1292.4
50°	5042.8	3429.0	1327.9	1278.9	1290.7	1273.8	1243.4	1236.6	1236.6	1253.5	1250.1
52.5°	5157.8	3559.2	1289.0	1238.3	1243.4	1229.8	1219.7	1204.5	1194.3	1218.0	1229.8
55°	5509.7	3775.7	1278.9	1204.5	1202.8	1189.2	1170.6	1155.4	1150.3	1153.7	1177.4
57.5°	5475.9	3708.1	1246.7	1145.2	1141.9	1123.3	1104.6	1099.6	1097.9	1101.3	1108.0
60°	4445.6	2738.8	1113.1	1077.6	1072.5	1069.1	1050.5	1030.2	1020.1	1030.2	1021.8
62.5°	2941.8	1833.7	981.2	996.4	999.8	991.3	960.9	940.6	943.9	955.8	937.2
65°	1444.7	1077.6	889.8	930.4	933.8	910.1	881.3	857.7	845.8	856.0	847.5
67.5°	825.5	823.8	815.4	857.7	856.0	832.3	786.6	766.3	746.0	749.4	744.3
70°	700.3	713.9	730.8	756.2	754.5	727.4	673.3	658.0	629.3	625.9	617.4
72.5°	551.5	575.2	612.4	631.0	615.8	581.9	546.4	521.0	495.7	480.4	485.5
75°	409.4	443.2	463.5	475.4	451.7	433.1	404.3	373.9	343.4	329.9	324.8
77.5°	297.7	307.9	326.5	334.9	319.7	301.1	284.2	253.7	225.0	206.4	201.3
80°	208.1	214.8	228.4	228.4	228.4	219.9	197.9	167.5	148.9	131.9	128.6
82.5°	145.5	152.2	165.8	159.0	157.3	147.2	133.6	110.0	89.7	77.8	74.4
85°	50.7	55.8	67.7	81.2	86.3	84.6	76.1	60.9	47.4	38.9	35.5
87.5°	11.8	11.8	13.5	11.8	11.8	13.5	11.8	11.8	11.8	8.5	6.8
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)