

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: P528780

Luminaire Tested: **GALN-SA3D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528780
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-SA3D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 14362 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

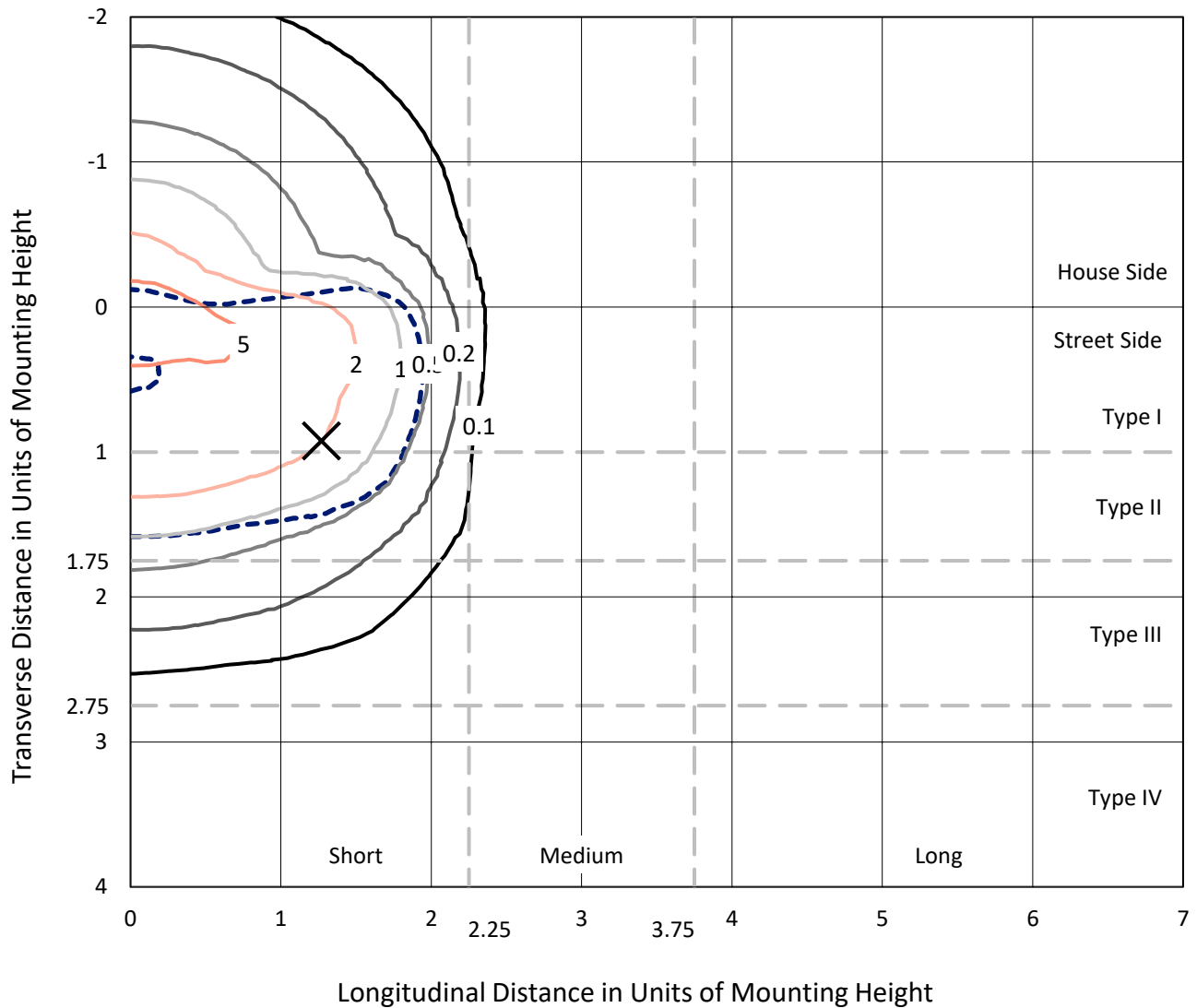
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

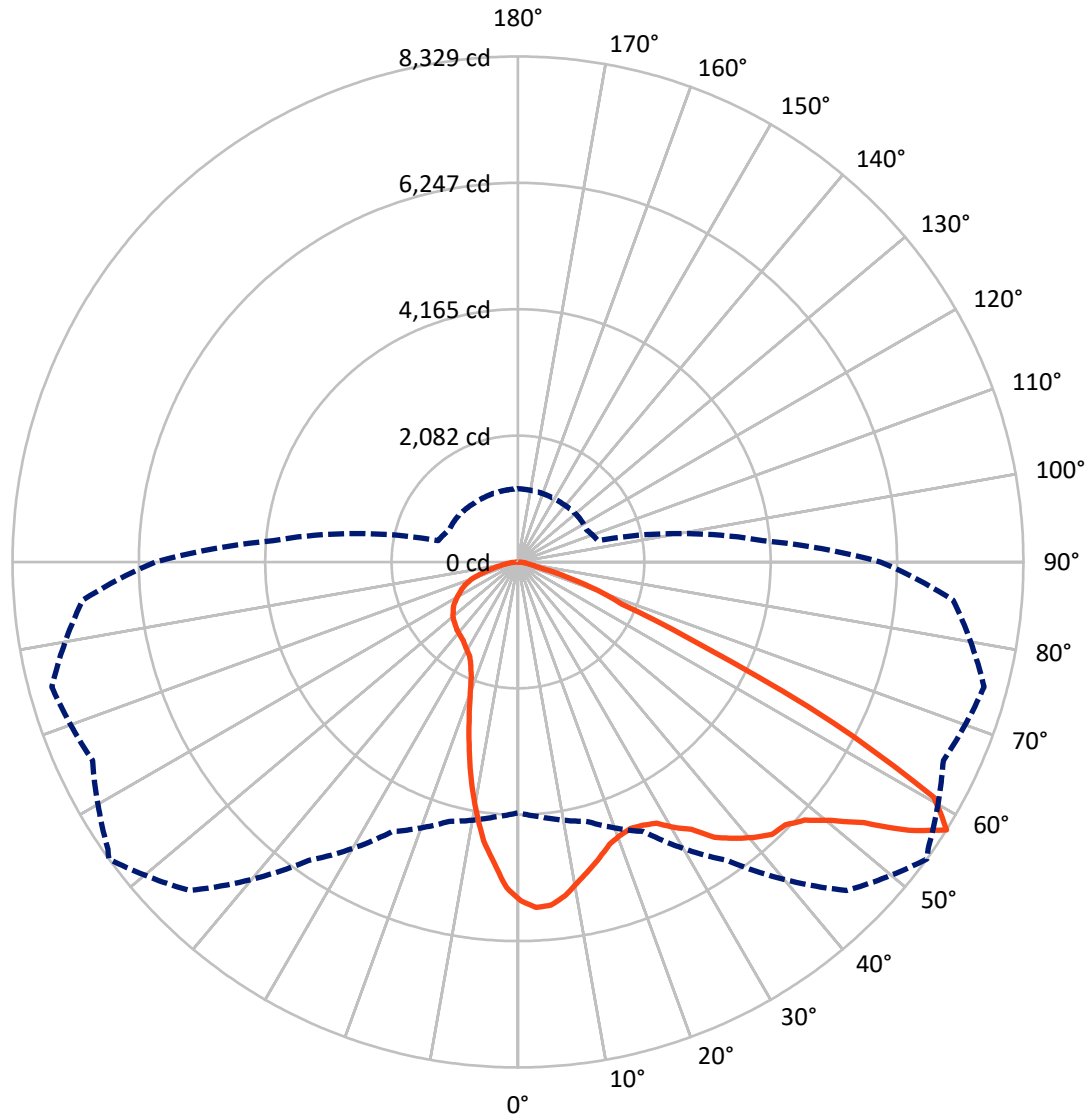
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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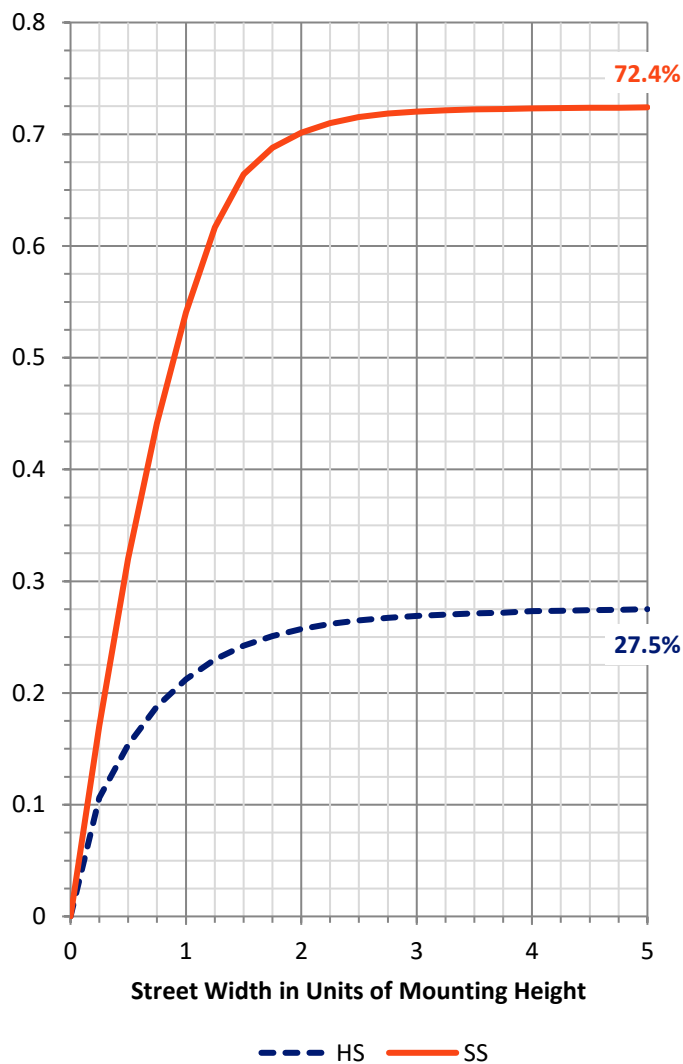
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3973.3	0.0	3973.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10388.7	0.0	10388.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	14362.0	0.0	14362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.4	3.4
10°-20°	1114.7	7.8
20°-30°	1566.1	10.9
30°-40°	2189.5	15.2
40°-50°	2964.1	20.6
50°-60°	3610.4	25.1
60°-70°	1880.5	13.1
70°-80°	481.8	3.4
80°-90°	73.5	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°	14362.0	100.0
0°-180°	14362.0	100.0

Coefficient of Utilization



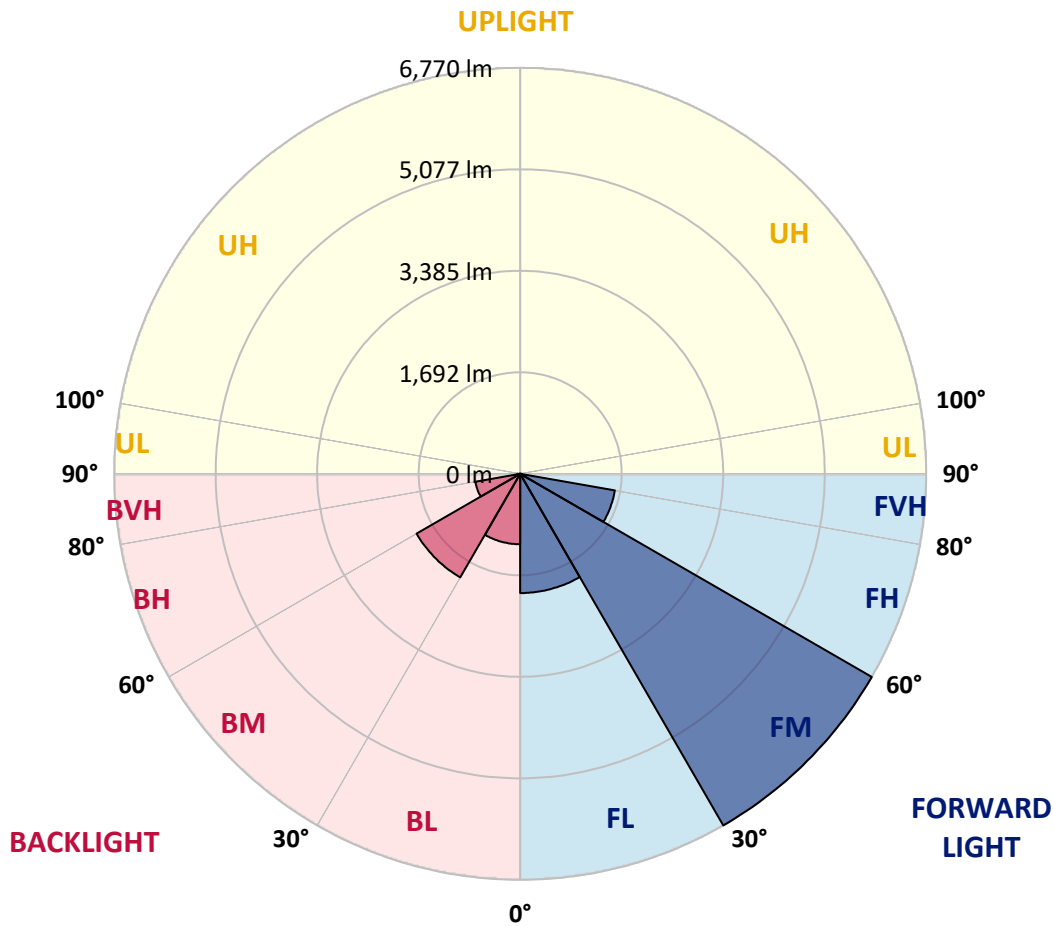
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1987.9	13.8			
FM (30°-60°)	6769.8	47.1			
FH (60°-80°)	1603.2	11.2			G1/1800
FVH (80°-90°)	27.8	0.2			G1/100
BL (0°-30°)	1174.3	8.2	B3/2500		
BM (30°-60°)	1994.2	13.9	B2/2500		
BH (60°-80°)	759.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.7	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°	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3
2.5°	5741.1	5718.9	5722.6	5752.2	5715.3	5700.5	5700.5	5628.5	5634.0	5584.2	5571.3
5°	5608.2	5556.5	5591.6	5635.9	5643.3	5658.0	5682.0	5663.6	5611.9	5558.3	5471.6
7.5°	5261.1	5307.3	5320.2	5351.6	5418.0	5479.0	5554.7	5503.0	5501.1	5447.6	5395.9
10°	4956.5	4928.9	4999.0	5045.2	5155.9	5257.4	5373.7	5368.2	5395.9	5335.0	5246.4
12.5°	4653.8	4631.6	4664.9	4770.1	4925.2	5072.8	5211.3	5159.6	5307.3	5296.2	5106.1
15°	4332.6	4349.2	4397.2	4495.0	4698.1	4875.3	5050.7	5052.5	5183.6	5227.9	4973.2
17.5°	4107.4	4088.9	4149.8	4295.7	4476.6	4688.9	4888.2	4928.9	5130.1	5155.9	4932.5
20°	3939.4	3965.2	4044.6	4118.5	4327.1	4583.7	4808.9	4823.6	5119.0	5189.1	4867.9
22.5°	3898.8	3884.0	3909.9	4029.8	4201.5	4480.3	4766.4	4821.8	5117.1	5178.1	4746.1
25°	3856.3	3904.3	3902.5	4022.5	4148.0	4397.2	4801.5	4862.4	5215.0	5235.3	4762.7
27.5°	3952.3	3946.8	3998.5	4007.7	4162.8	4419.4	4875.3	4921.5	5377.4	5360.8	4775.6
30°	4048.3	4020.6	4052.0	4160.9	4232.9	4546.7	5078.4	5074.7	5587.9	5576.8	4816.2
32.5°	4166.5	4153.5	4173.8	4269.8	4391.7	4716.6	5250.1	5359.0	5802.0	5872.2	4956.5
35°	4188.6	4242.1	4290.1	4419.4	4592.9	4991.6	5573.1	5663.6	6049.4	6269.1	5224.2
37.5°	4328.9	4349.2	4461.8	4690.7	4849.5	5359.0	5778.0	5835.2	6274.6	6523.8	5506.7
40°	4478.4	4502.4	4672.3	4912.2	5130.1	5599.0	5970.0	5988.5	6346.6	6719.5	5691.3
42.5°	4681.5	4703.6	4871.6	5172.5	5464.2	5803.9	6139.8	6160.1	6341.1	6944.7	5984.8
45°	4891.9	4945.5	5143.0	5484.5	5746.6	6043.8	6178.6	6261.7	6392.7	7145.9	6222.9
47.5°	5187.3	5237.1	5399.6	5733.7	6040.2	6254.3	6357.7	6438.9	6516.4	7321.3	6376.1
50°	5501.1	5510.4	5707.9	6010.6	6235.8	6492.4	6691.8	6719.5	6678.9	7524.4	6636.4
52.5°	5731.9	5761.4	5914.6	6210.0	6546.0	6861.6	7134.8	7164.4	7085.0	7600.0	6725.0
55°	5349.7	5333.1	5582.3	5975.5	6754.6	7411.7	7808.6	7830.8	7380.4	7834.5	7014.9
57.5°	4135.1	4214.4	4426.7	4901.2	6001.4	7655.4	8329.2	8249.8	7734.8	7952.6	7199.5
60°	3005.3	2986.8	3129.0	3446.5	4522.7	6597.7	7875.1	7956.3	7445.0	7168.1	5936.8
62.5°	2447.8	2422.0	2433.0	2444.1	2918.5	4378.7	5829.7	5827.9	5733.7	5152.2	4004.0
65°	1956.8	2017.7	2023.2	2106.3	2167.2	2615.8	3378.2	3559.1	3099.5	2542.0	1844.2
67.5°	1475.0	1452.8	1526.7	1822.0	1936.5	1888.5	1844.2	1864.5	1325.4	956.2	900.9
70°	869.5	860.2	948.9	1270.1	1595.0	1500.8	1390.0	1391.9	910.1	668.3	743.9
72.5°	476.3	474.4	492.9	644.3	906.4	941.5	834.4	860.2	542.7	540.9	581.5
75°	265.8	260.3	254.7	284.3	326.7	345.2	352.6	356.3	372.9	417.2	433.8
77.5°	97.8	94.1	94.1	108.9	138.5	173.5	219.7	223.4	264.0	302.7	319.4
80°	33.2	36.9	49.8	68.3	92.3	123.7	149.5	153.2	186.4	212.3	217.8
82.5°	20.3	22.2	33.2	48.0	66.5	86.8	110.8	112.6	138.5	155.1	162.4
85°	9.2	11.1	18.5	29.5	42.5	57.2	59.1	59.1	57.2	59.1	55.4
87.5°	0.0	0.0	3.7	3.7	3.7	5.5	7.4	5.5	9.2	11.1	11.1
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°	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3	5582.3
2.5°	5532.5	5512.2	5449.4	5394.1	5377.4	5303.6	5194.7	5207.6	5128.2	5165.1	5126.4
5°	5456.8	5388.5	5227.9	5159.6	4980.5	4899.3	4843.9	4705.5	4640.9	4628.0	4572.6
7.5°	5263.0	5220.5	5019.3	4834.7	4644.6	4482.1	4273.5	4131.4	4029.8	4002.2	3920.9
10°	5109.8	5015.6	4736.9	4456.3	4184.9	3902.5	3631.1	3418.8	3315.4	3195.4	3154.8
12.5°	4958.4	4816.2	4439.7	4079.7	3728.9	3372.7	3044.1	2785.6	2560.4	2506.9	2488.4
15°	4864.2	4616.9	4173.8	3740.0	3241.6	2776.4	2447.8	2278.0	2139.5	2082.3	2122.9
17.5°	4740.6	4452.6	3919.1	3341.3	2793.0	2364.7	2089.7	1984.5	1934.6	1940.2	1923.5
20°	4585.5	4297.5	3585.0	2979.5	2392.4	2050.9	1894.0	1855.2	1862.6	1875.5	1870.0
22.5°	4474.7	4109.2	3343.1	2610.3	2067.5	1877.4	1812.8	1785.1	1809.1	1820.2	1810.9
25°	4389.8	3948.6	3049.6	2283.5	1879.2	1779.6	1750.0	1748.2	1785.1	1799.9	1790.6
27.5°	4312.3	3799.1	2757.9	2034.3	1753.7	1703.9	1694.6	1716.8	1740.8	1755.6	1768.5
30°	4266.1	3684.6	2484.7	1825.7	1690.9	1667.0	1650.3	1670.6	1683.6	1698.3	1690.9
32.5°	4310.4	3603.4	2220.8	1707.6	1639.3	1615.3	1637.4	1624.5	1646.6	1659.6	1639.3
35°	4448.9	3531.4	2032.5	1644.8	1580.2	1589.4	1593.1	1587.6	1596.8	1585.7	1609.7
37.5°	4585.5	3505.6	1858.9	1591.3	1552.5	1552.5	1548.8	1537.7	1556.2	1552.5	1563.6
40°	4759.0	3522.2	1711.3	1534.0	1526.7	1523.0	1508.2	1506.3	1499.0	1500.8	1504.5
42.5°	4910.4	3559.1	1626.3	1497.1	1502.7	1510.0	1482.3	1460.2	1469.4	1451.0	1451.0
45°	5071.0	3592.3	1550.7	1471.3	1465.7	1463.9	1441.7	1428.8	1421.4	1423.3	1439.9
47.5°	5323.9	3640.3	1493.4	1436.2	1439.9	1412.2	1406.7	1390.0	1397.4	1408.5	1410.4
50°	5503.0	3741.9	1449.1	1395.6	1408.5	1390.0	1356.8	1349.4	1349.4	1367.9	1364.2
52.5°	5628.5	3884.0	1406.7	1351.3	1356.8	1342.1	1331.0	1314.4	1303.3	1329.1	1342.1
55°	6012.5	4120.3	1395.6	1314.4	1312.5	1297.7	1277.4	1260.8	1255.3	1259.0	1284.8
57.5°	5975.5	4046.5	1360.5	1249.8	1246.1	1225.8	1205.4	1199.9	1198.1	1201.8	1209.1
60°	4851.3	2988.7	1214.7	1175.9	1170.4	1166.7	1146.4	1124.2	1113.1	1124.2	1115.0
62.5°	3210.2	2001.1	1070.7	1087.3	1091.0	1081.8	1048.5	1026.4	1030.1	1043.0	1022.7
65°	1576.5	1175.9	971.0	1015.3	1019.0	993.2	961.8	935.9	923.0	934.1	924.9
67.5°	900.9	899.0	889.8	935.9	934.1	908.2	858.4	836.2	814.1	817.8	812.2
70°	764.2	779.0	797.5	825.2	823.3	793.8	734.7	718.1	686.7	683.0	673.8
72.5°	601.8	627.6	668.3	688.6	671.9	635.0	596.3	568.6	540.9	524.3	529.8
75°	446.7	483.7	505.8	518.7	492.9	472.6	441.2	408.0	374.7	360.0	354.4
77.5°	324.9	336.0	356.3	365.5	348.9	328.6	310.1	276.9	245.5	225.2	219.7
80°	227.1	234.4	249.2	249.2	249.2	240.0	216.0	182.8	162.4	144.0	140.3
82.5°	158.8	166.1	180.9	173.5	171.7	160.6	145.8	120.0	97.8	84.9	81.2
85°	55.4	60.9	73.8	88.6	94.1	92.3	83.1	66.5	51.7	42.5	38.8
87.5°	12.9	12.9	14.8	12.9	12.9	14.8	12.9	12.9	12.9	9.2	7.4
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)