

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: P528466

Luminaire Tested: **GALN-SA3C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528466  
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-SA3C-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA 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: 17788 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

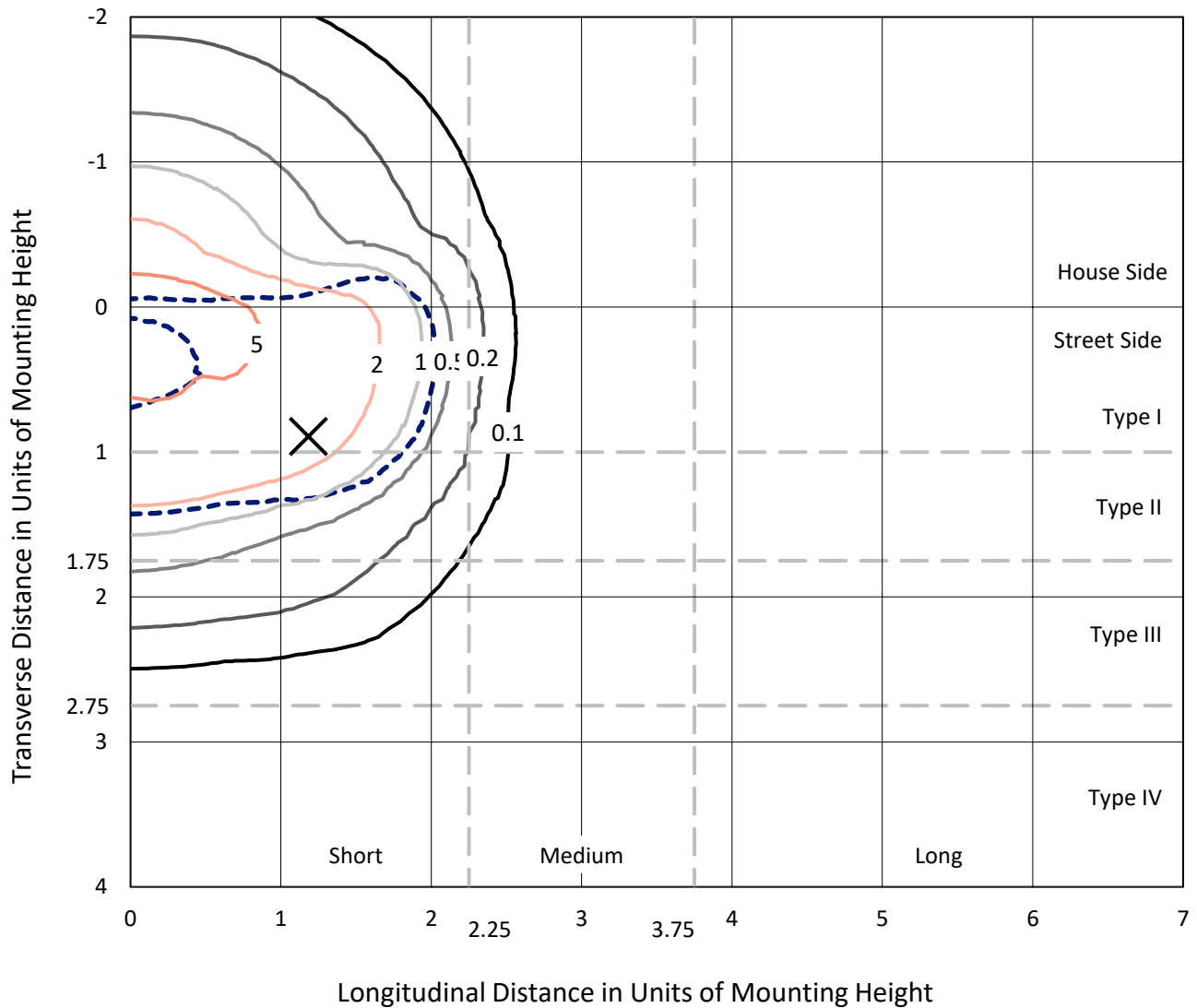
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

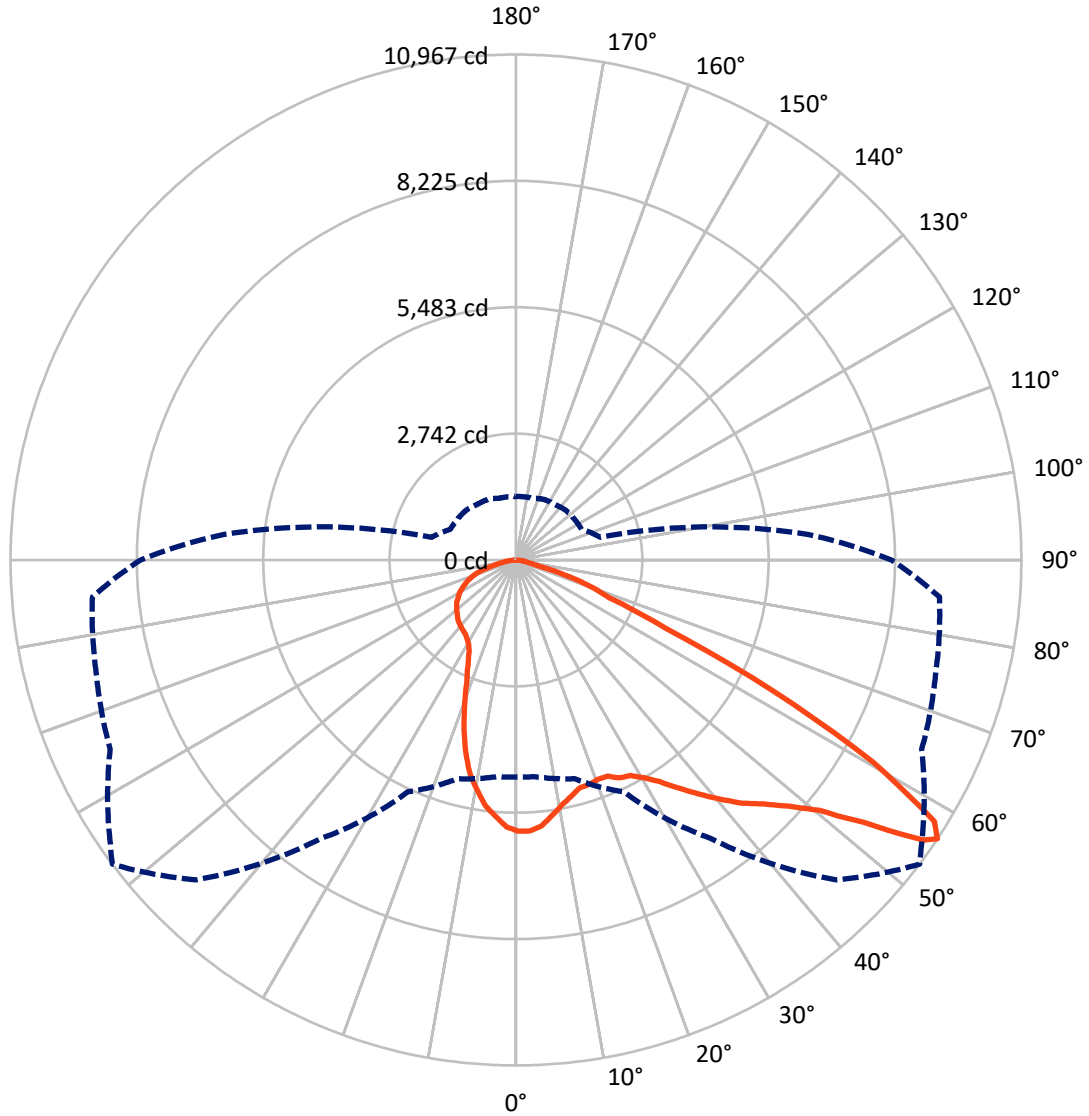
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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
<b>House Side</b>	Lumens	5190.9	0.0	5190.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	12597.1	0.0	12597.1
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	17788.0	0.0	17788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.0	2.9
10°-20°	1301.2	7.3
20°-30°	1918.7	10.8
30°-40°	2741.5	15.4
40°-50°	3773.3	21.2
50°-60°	4459.0	25.1
60°-70°	2376.4	13.4
70°-80°	602.9	3.4
80°-90°	94.0	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°	17788.0	100.0
0°-180°	17788.0	100.0

**Coefficient of Utilization**



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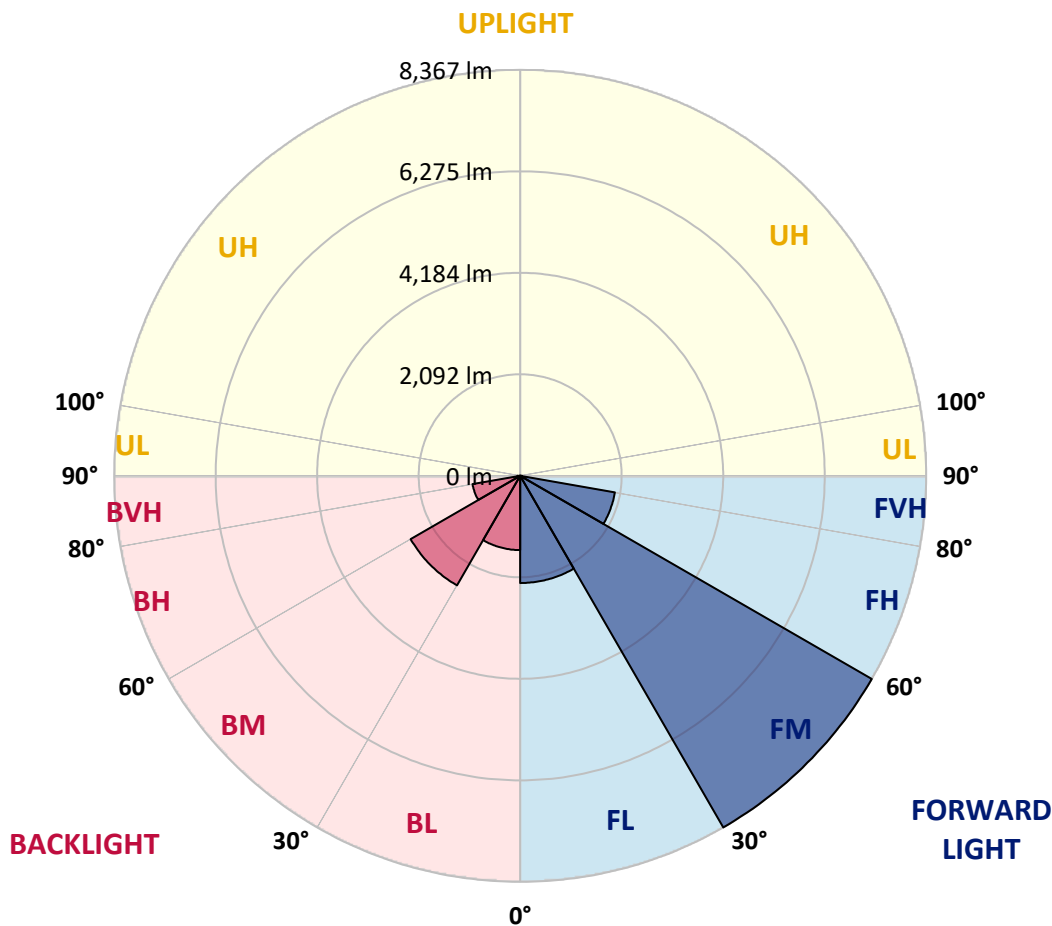
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.9	12.4			
FM (30°-60°)	8367.1	47.0			
FH (60°-80°)	1982.3	11.1			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1531.0	8.6	B3/2500		
BM (30°-60°)	2606.7	14.7	B3/5000		
BH (60°-80°)	997.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	56.2	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°	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0
2.5°	5812.0	5761.7	5791.4	5780.0	5873.6	5900.9	5887.3	5898.7	5951.1	5926.0	5873.6
5°	5430.9	5501.6	5515.3	5549.5	5604.3	5711.5	5796.0	5818.8	5843.9	5960.3	5948.9
7.5°	5084.0	5132.0	5106.8	5207.3	5325.9	5499.3	5602.0	5620.3	5850.7	5914.6	5962.6
10°	4865.0	4817.1	4931.1	4958.5	5093.2	5291.7	5414.9	5490.2	5700.1	5953.4	5983.1
12.5°	4661.9	4645.9	4714.4	4792.0	4942.6	5147.9	5273.4	5303.1	5627.1	5894.1	6033.3
15°	4511.3	4493.0	4561.5	4618.5	4794.2	4976.8	5136.5	5220.9	5547.3	5859.9	5989.9
17.5°	4392.6	4390.3	4429.1	4531.8	4712.1	4865.0	5122.8	5127.4	5506.2	5912.4	6026.4
20°	4385.8	4383.5	4390.3	4504.4	4668.7	4855.8	5079.5	5120.5	5506.2	5875.8	6028.7
22.5°	4442.8	4406.3	4447.4	4520.4	4639.1	4871.8	5095.4	5186.7	5638.5	6056.1	6131.4
25°	4534.1	4543.2	4566.0	4591.1	4659.6	4908.3	5236.9	5312.2	5793.7	6211.3	6272.9
27.5°	4700.7	4696.1	4705.2	4718.9	4778.3	4942.6	5294.0	5487.9	6117.7	6487.4	6425.8
30°	4944.8	4928.9	4965.4	5013.3	4958.5	5052.1	5483.4	5629.4	6418.9	6765.8	6596.9
32.5°	5166.2	5225.5	5294.0	5314.5	5248.3	5266.6	5734.4	5882.7	6669.9	7108.1	6806.9
35°	5442.3	5490.2	5581.5	5645.4	5634.0	5579.2	6076.6	6272.9	7032.8	7359.1	7028.2
37.5°	5711.5	5768.6	5919.2	6108.6	6003.6	5978.5	6441.8	6603.8	7144.6	7493.7	7190.2
40°	6145.1	6142.8	6403.0	6501.1	6594.6	6551.3	6820.5	6875.3	7203.9	7464.0	7194.8
42.5°	6654.0	6622.0	6886.7	7039.6	7160.5	7165.1	7215.3	7197.1	7231.3	7313.4	7146.9
45°	7137.7	7206.2	7473.2	7747.0	7867.9	7881.6	7548.5	7514.2	7279.2	7270.1	7055.6
47.5°	7728.7	7744.7	7963.8	8324.3	8605.0	8509.1	7979.7	7904.4	7489.1	7559.9	7208.5
50°	7763.0	7881.6	8077.9	8502.3	9364.8	9339.7	8538.8	8397.3	7826.9	7970.6	7635.2
52.5°	7046.4	7019.1	7251.8	7945.5	9307.8	10165.8	9465.2	9127.5	8552.5	8443.0	8326.6
55°	5369.3	5433.2	5638.5	6339.1	8082.4	10177.2	10727.1	10451.0	9328.3	9141.2	9006.6
56°	4709.8	4718.9	4912.9	5551.8	7375.0	9814.4	10966.7	10743.1	9714.0	9428.7	9223.4
57.5°	3904.3	3851.8	3952.2	4301.3	6225.0	9047.7	10704.3	10923.4	10165.8	9739.1	9453.8
60°	3073.7	3062.3	3021.2	3085.1	3934.0	6816.0	8910.7	9403.6	10120.1	9447.0	9054.5
62.5°	2510.1	2453.0	2535.2	2626.4	2733.7	4228.3	6261.5	6551.3	8034.5	7541.6	6802.3
65°	1946.4	1919.1	2021.7	2318.4	2382.3	2685.8	3566.6	3790.2	4744.0	4659.6	4102.8
67.5°	1339.5	1344.0	1433.0	1884.8	2208.9	2181.5	2183.8	2300.1	2475.8	1839.2	1601.9
70°	848.9	846.6	894.5	1214.0	1777.6	1795.8	1704.6	1670.3	1583.6	958.4	1015.4
72.5°	545.4	529.4	554.5	670.9	919.6	1063.4	1095.3	1115.8	917.3	753.0	816.9
75°	308.1	292.1	283.0	312.6	362.8	419.9	460.9	474.6	531.7	570.5	604.7
77.5°	93.6	84.4	102.7	136.9	180.3	241.9	294.4	303.5	358.3	403.9	438.1
80°	41.1	45.6	63.9	91.3	127.8	171.1	207.7	221.3	257.9	292.1	301.2
82.5°	25.1	27.4	43.4	61.6	89.0	120.9	148.3	152.9	189.4	216.8	223.6
85°	9.1	11.4	22.8	36.5	57.0	77.6	77.6	84.4	77.6	77.6	84.4
87.5°	0.0	0.0	2.3	4.6	4.6	6.8	9.1	9.1	11.4	13.7	16.0
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°	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0	5885.0
2.5°	5900.9	5889.5	5871.3	5805.1	5798.3	5777.7	5663.6	5645.4	5663.6	5608.9	5613.4
5°	5889.5	5923.8	5786.9	5720.7	5597.5	5508.5	5405.8	5353.3	5259.7	5200.4	5266.6
7.5°	5939.7	5926.0	5754.9	5611.1	5426.3	5200.4	5020.1	4917.5	4753.2	4707.5	4741.7
10°	5921.5	5848.5	5647.7	5458.3	5109.1	4910.6	4618.5	4335.6	4180.4	4100.5	4089.1
12.5°	5896.4	5875.8	5540.4	5214.1	4846.7	4429.1	4018.4	3751.4	3498.1	3388.6	3404.6
15°	5926.0	5752.6	5339.6	4926.6	4438.3	3890.6	3447.9	3103.4	2927.7	2856.9	2856.9
17.5°	5912.4	5693.3	5243.8	4604.8	3986.4	3338.4	2852.4	2644.7	2571.7	2571.7	2592.2
20°	5919.2	5732.1	5049.8	4283.1	3452.5	2811.3	2457.6	2382.3	2414.2	2425.6	2437.0
22.5°	5958.0	5604.3	4860.4	3929.4	2957.3	2405.1	2231.7	2234.0	2291.0	2352.6	2341.2
25°	6005.9	5554.1	4629.9	3578.0	2578.5	2206.6	2151.8	2145.0	2188.3	2220.3	2224.8
27.5°	5964.8	5467.4	4394.9	3139.9	2268.2	2074.2	2062.8	2067.4	2081.1	2145.0	2124.4
30°	6099.5	5492.5	4100.5	2772.5	2097.0	2030.9	2017.2	2010.3	2030.9	2049.1	2033.2
32.5°	6266.0	5403.5	3881.5	2418.8	2012.6	1998.9	1971.5	1962.4	1973.8	1955.6	1964.7
35°	6339.1	5387.5	3596.2	2165.5	1946.4	1935.0	1919.1	1916.8	1919.1	1903.1	1889.4
37.5°	6380.1	5462.8	3269.9	2049.1	1905.4	1916.8	1880.3	1875.7	1834.6	1843.8	1850.6
40°	6450.9	5346.4	3005.2	1937.3	1880.3	1857.5	1825.5	1818.7	1791.3	1775.3	1791.3
42.5°	6348.2	5312.2	2745.1	1889.4	1843.8	1818.7	1795.8	1757.0	1747.9	1734.2	1725.1
45°	6266.0	5116.0	2512.4	1830.1	1800.4	1786.7	1743.4	1702.3	1668.1	1681.7	1661.2
47.5°	6327.7	5047.5	2281.9	1779.9	1741.1	1725.1	1681.7	1649.8	1615.6	1599.6	1595.0
50°	6574.1	5175.3	2087.9	1743.4	1690.9	1681.7	1624.7	1588.2	1556.2	1544.8	1549.4
52.5°	7162.8	5524.4	1955.6	1668.1	1643.0	1601.9	1569.9	1524.3	1503.8	1467.2	1490.1
55°	7909.0	6092.6	1921.3	1597.3	1583.6	1547.1	1503.8	1469.5	1430.7	1401.1	1394.2
56°	8148.6	6364.2	1894.0	1569.9	1547.1	1526.6	1469.5	1449.0	1387.4	1380.5	1376.0
57.5°	8342.6	6603.8	1898.5	1517.5	1494.6	1476.4	1442.1	1391.9	1350.9	1325.8	1337.2
60°	7904.4	6181.6	1811.8	1437.6	1433.0	1398.8	1350.9	1328.1	1277.9	1248.2	1241.3
62.5°	5875.8	4196.4	1469.5	1334.9	1332.6	1296.1	1241.3	1216.2	1207.1	1166.0	1166.0
65°	3384.0	2631.0	1271.0	1250.5	1232.2	1195.7	1140.9	1120.4	1097.6	1083.9	1072.5
67.5°	1444.4	1364.6	1154.6	1152.3	1131.8	1086.2	1031.4	999.5	969.8	942.4	956.1
70°	1047.4	1063.4	1042.8	1031.4	1006.3	949.3	901.3	862.6	816.9	798.7	812.3
72.5°	830.6	864.8	894.5	896.8	867.1	800.9	748.5	696.0	645.8	620.7	632.1
75°	629.8	652.6	682.3	689.1	645.8	600.1	549.9	495.2	456.4	426.7	431.3
77.5°	454.1	449.5	476.9	472.3	451.8	419.9	374.2	324.0	280.7	253.3	255.6
80°	310.3	317.2	333.2	330.9	305.8	285.2	251.0	209.9	178.0	155.2	150.6
82.5°	216.8	228.2	241.9	230.5	209.9	189.4	164.3	134.6	109.5	91.3	86.7
85°	77.6	89.0	102.7	109.5	116.4	111.8	93.6	75.3	54.8	45.6	43.4
87.5°	16.0	18.3	20.5	20.5	20.5	18.3	16.0	16.0	13.7	6.8	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)