

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: P528618

Luminaire Tested: **GALN-SA3D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17427 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

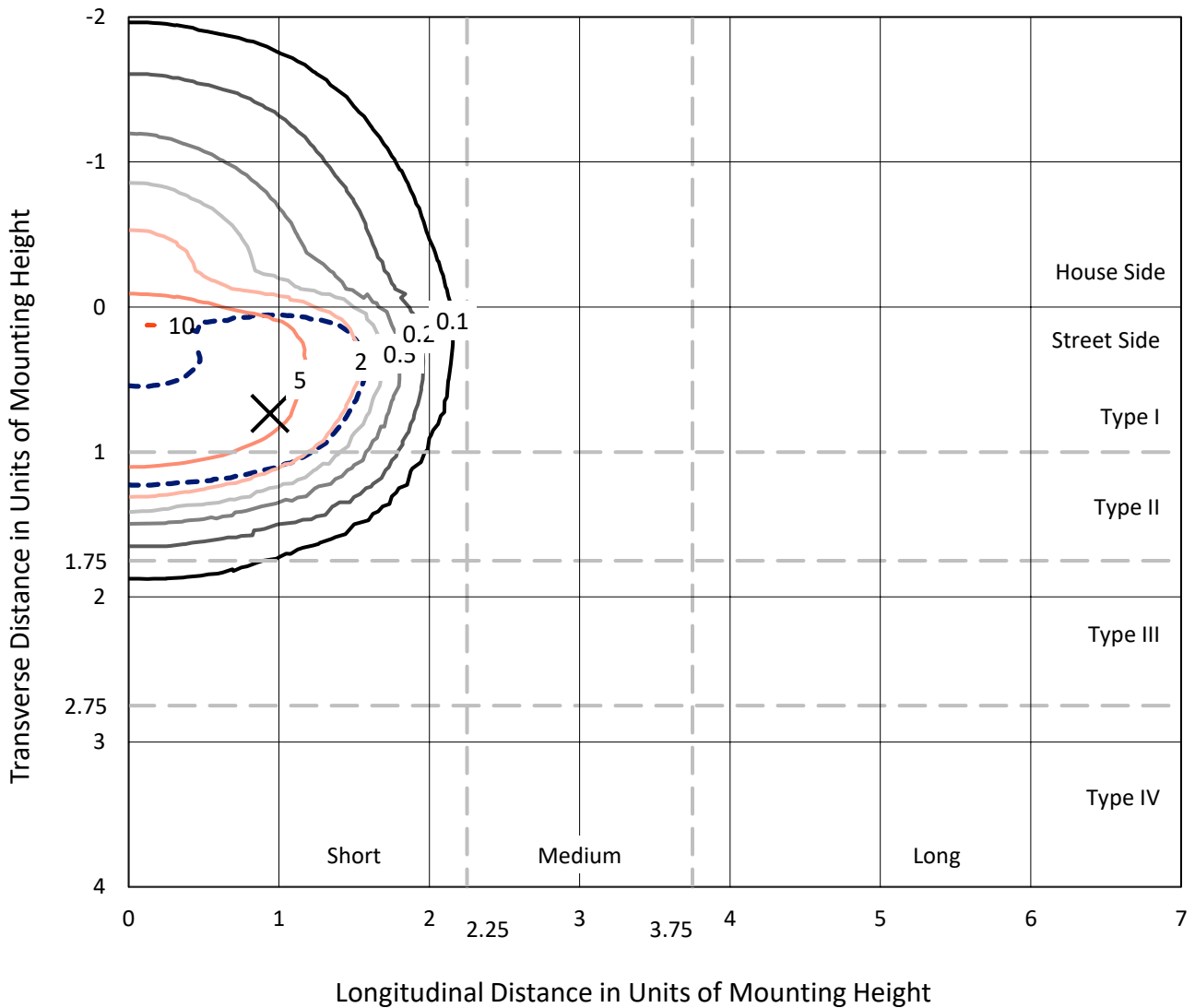
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

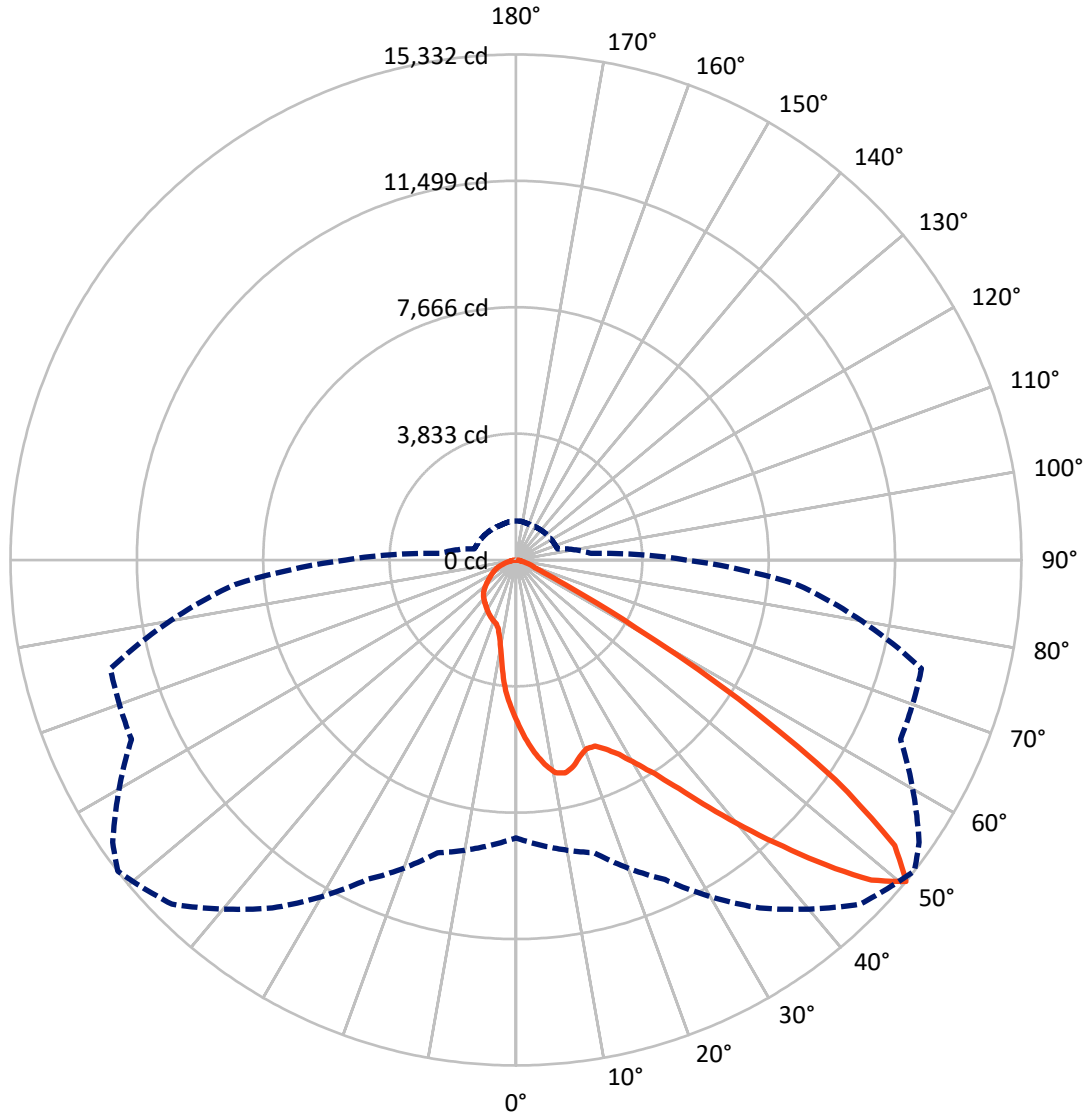
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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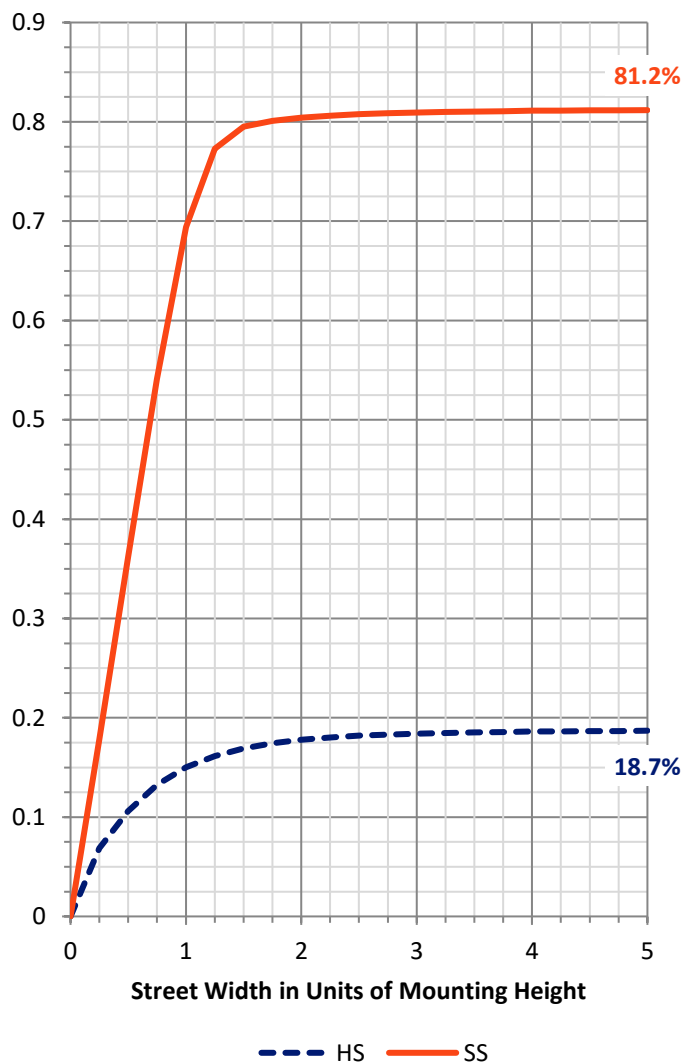
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3275.9	0.0	3275.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	14151.1	0.0	14151.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	17427.0	0.0	17427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.8	2.6
10°-20°	1213.5	7.0
20°-30°	2044.2	11.7
30°-40°	3430.3	19.7
40°-50°	5247.5	30.1
50°-60°	3825.8	22.0
60°-70°	851.5	4.9
70°-80°	307.1	1.8
80°-90°	54.4	0.3
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°	17427.0	100.0
0°-180°	17427.0	100.0

**Coefficient of Utilization**



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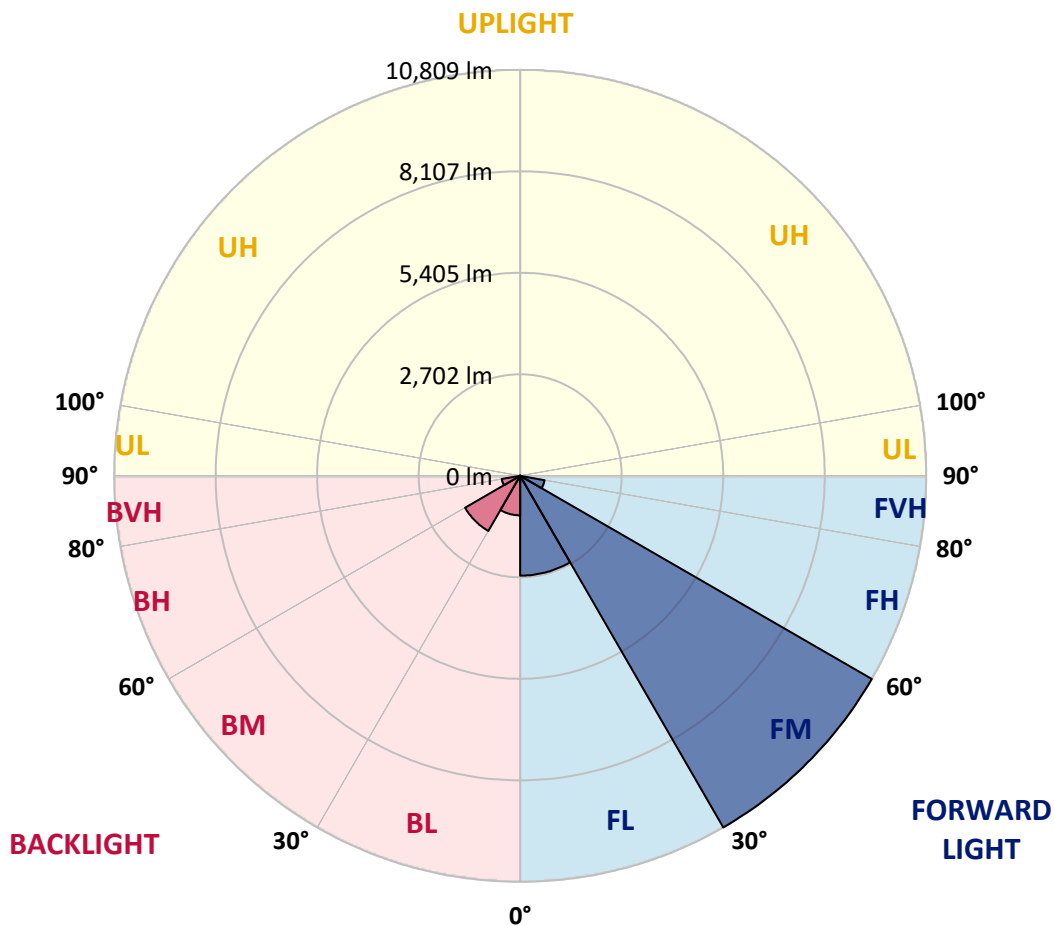
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.2	15.3			
FM (30°-60°)	10809.1	62.0			
FH (60°-80°)	659.5	3.8			G0/660
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	1052.3	6.0	B3/2500		
BM (30°-60°)	1694.5	9.7	B2/2500		
BH (60°-80°)	499.1	2.9	B1/500		G1/500
BVH (80°-90°)	30.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4
2.5°	5784.0	5672.7	5685.3	5605.5	5519.3	5494.1	5405.9	5321.9	5258.9	5124.5	5000.6
5°	6321.6	6288.0	6237.6	6174.6	6109.5	5949.9	5859.6	5754.6	5523.5	5315.6	5109.8
7.5°	6399.3	6393.0	6420.3	6420.3	6443.4	6382.5	6254.4	6180.9	5935.2	5597.0	5214.8
10°	5853.3	5872.2	6004.5	6176.7	6416.1	6582.0	6561.0	6542.1	6273.3	5811.3	5338.7
12.5°	5418.5	5376.5	5454.2	5601.3	5960.4	6361.5	6632.5	6634.6	6565.2	6153.6	5429.0
15°	5172.8	5202.2	5223.2	5292.5	5563.4	6027.6	6504.3	6645.1	6949.6	6395.1	5571.8
17.5°	5330.3	5231.6	5227.4	5244.2	5382.8	5731.5	6267.0	6508.5	7159.6	6706.0	5748.3
20°	5536.1	5534.0	5475.2	5454.2	5452.1	5763.0	6111.6	6439.2	7270.9	7109.2	5926.8
22.5°	5897.4	5897.4	5800.8	5754.6	5655.9	5910.0	6132.6	6355.2	7455.7	7386.4	6012.9
25°	6502.2	6403.5	6237.6	6124.2	6067.5	6157.8	6355.2	6554.7	7617.4	7680.5	6191.4
27.5°	7060.9	6905.5	6823.6	6628.3	6552.6	6500.1	6680.8	6882.4	7806.5	8138.3	6288.0
30°	7695.2	7667.9	7520.8	7268.8	7081.9	6985.3	7151.2	7350.7	8153.0	8606.6	6510.6
32.5°	8829.3	8581.4	8381.9	8073.2	7768.7	7562.8	7726.7	7859.0	8728.5	9096.0	6754.3
35°	10053.7	9973.9	9629.4	9072.9	8606.6	8421.8	8518.4	8617.1	9398.4	9843.7	7163.8
37.5°	11257.1	11147.9	10864.4	10396.0	9829.0	9453.0	9522.3	9637.8	10150.3	10851.8	7663.7
40°	12122.4	11988.0	11845.2	11775.9	11213.0	10698.5	10658.5	10687.9	11166.8	11796.9	8218.1
42.5°	12185.4	12351.3	12395.4	12674.7	12542.4	12120.3	11874.6	11880.9	12137.1	12731.5	8778.9
45°	12053.1	11899.8	12225.3	12987.7	13424.5	13621.9	13208.2	13155.7	12737.8	13273.3	9058.2
47.5°	10664.8	10706.9	11257.1	12462.6	13724.8	14606.9	14510.3	14336.0	13059.1	13254.4	9014.1
50°	8430.2	8684.4	9194.7	10696.4	12884.8	14762.3	15331.5	14928.3	12868.0	12733.6	8564.6
52.5°	5613.9	5718.9	6054.9	7993.4	10360.3	13195.6	14386.4	14478.8	12691.5	12051.0	7995.5
55°	2499.2	2490.8	2963.4	4175.2	6500.1	10041.1	11754.9	12317.7	12013.2	11355.8	7441.0
57.5°	1058.5	1094.2	1287.4	1804.1	3196.5	6059.1	7964.0	8457.5	9238.8	9324.9	5708.4
60°	716.2	720.4	772.9	903.1	1337.8	2845.8	4177.3	4769.6	5328.2	5290.4	3028.5
62.5°	562.9	577.6	617.5	670.0	793.9	1291.6	1869.2	2198.9	2234.6	1879.7	1148.8
65°	480.9	483.0	523.0	567.1	621.7	751.9	901.0	917.8	928.3	894.7	844.3
67.5°	396.9	401.1	432.6	483.0	533.5	575.5	617.5	638.5	686.8	781.3	768.7
70°	315.0	321.3	348.6	390.6	436.8	462.0	514.6	533.5	577.6	651.1	680.5
72.5°	239.4	241.5	264.6	294.0	336.0	361.2	405.3	426.3	455.7	518.8	546.1
75°	172.2	178.5	195.3	210.0	216.3	233.1	275.1	298.2	340.2	367.5	369.6
77.5°	90.3	94.5	98.7	98.7	119.7	151.2	178.5	191.1	220.5	241.5	231.0
80°	35.7	37.8	48.3	65.1	84.0	109.2	128.1	134.4	159.6	172.2	178.5
82.5°	21.0	23.1	31.5	46.2	60.9	77.7	92.4	98.7	115.5	130.2	134.4
85°	10.5	12.6	18.9	29.4	39.9	48.3	46.2	44.1	44.1	42.0	44.1
87.5°	4.2	4.2	6.3	6.3	6.3	8.4	10.5	10.5	10.5	12.6	12.6
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°	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4	4912.4
2.5°	4918.7	4834.7	4757.0	4614.2	4458.7	4414.6	4234.0	4168.9	4122.7	4068.1	4051.3
5°	4943.9	4832.6	4582.7	4294.9	4066.0	3772.0	3578.8	3370.8	3219.6	3181.8	3171.3
7.5°	4996.4	4805.3	4374.7	3940.0	3471.6	3072.6	2768.1	2604.3	2459.3	2450.9	2436.2
10°	5055.2	4723.4	4147.9	3465.3	2866.8	2497.1	2314.4	2243.0	2207.3	2198.9	2194.7
12.5°	5103.5	4706.6	3893.8	3003.3	2438.3	2215.7	2161.1	2154.8	2169.5	2173.7	2182.1
15°	5124.5	4639.4	3587.2	2589.6	2171.6	2089.7	2112.8	2138.0	2148.5	2175.8	2154.8
17.5°	5164.4	4553.2	3209.1	2261.9	2022.5	2037.2	2077.1	2106.5	2123.3	2142.2	2114.9
20°	5185.4	4475.5	2854.2	2066.6	1970.0	1997.3	2051.9	2075.0	2096.0	2104.4	2072.9
22.5°	5166.5	4315.9	2541.2	1909.1	1919.6	1955.3	2003.6	2028.8	2016.2	1982.6	1963.7
25°	5116.1	4091.2	2215.7	1808.3	1848.2	1911.2	1949.0	1930.1	1907.0	1888.1	1881.8
27.5°	5114.0	3816.1	1980.5	1715.9	1787.3	1873.4	1860.8	1844.0	1854.5	1839.8	1823.0
30°	5124.5	3549.3	1787.3	1663.4	1743.2	1785.2	1799.9	1783.1	1795.7	1768.4	1776.8
32.5°	5069.9	3288.9	1661.3	1602.5	1690.7	1688.6	1736.9	1749.5	1720.1	1663.4	1671.8
35°	5093.0	3078.9	1554.2	1575.2	1631.9	1631.9	1669.7	1655.0	1577.3	1543.7	1552.1
37.5°	5252.6	2873.1	1501.6	1537.4	1575.2	1592.0	1579.4	1516.3	1497.4	1497.4	1501.6
40°	5403.8	2696.7	1470.1	1529.0	1522.6	1533.2	1440.7	1447.0	1447.0	1449.1	1438.6
42.5°	5538.2	2577.0	1444.9	1478.5	1489.0	1434.4	1377.7	1371.4	1386.1	1384.0	1375.6
45°	5586.5	2478.2	1409.2	1421.8	1430.2	1339.9	1312.6	1300.0	1316.8	1323.1	1331.5
47.5°	5401.7	2396.3	1369.3	1344.1	1327.3	1268.5	1232.8	1209.7	1230.7	1266.4	1274.8
50°	5164.4	2289.2	1306.3	1258.0	1222.3	1197.1	1171.9	1148.8	1163.5	1188.7	1182.4
52.5°	4813.7	2121.2	1226.5	1176.1	1115.2	1121.5	1098.4	1085.8	1094.2	1094.2	1087.9
55°	4313.8	1743.2	1092.1	1056.4	1006.0	1022.8	1027.0	1010.2	993.4	1008.1	995.5
57.5°	2944.5	1230.7	974.5	974.5	924.1	947.2	945.1	905.2	865.3	869.5	861.1
60°	1703.3	980.8	898.9	890.5	838.0	856.9	861.1	833.8	772.9	777.1	768.7
62.5°	968.2	838.0	785.5	772.9	762.4	779.2	779.2	743.5	691.0	695.2	686.8
65°	823.3	777.1	701.5	699.4	695.2	699.4	682.6	644.8	598.6	579.7	581.8
67.5°	747.7	718.3	644.8	625.9	613.3	611.2	579.7	544.0	523.0	506.1	504.0
70°	655.3	632.2	577.6	552.4	539.8	510.4	478.8	455.7	426.3	417.9	426.3
72.5°	518.8	516.7	495.6	468.3	441.0	417.9	390.6	359.1	331.8	325.5	310.8
75°	359.1	363.3	367.5	363.3	340.2	310.8	279.3	254.1	220.5	201.6	197.4
77.5°	235.2	241.5	247.8	239.4	224.7	197.4	176.4	144.9	119.7	105.0	102.9
80°	172.2	180.6	184.8	178.5	161.7	140.7	117.6	92.4	73.5	60.9	60.9
82.5°	132.3	140.7	144.9	134.4	117.6	100.8	84.0	65.1	50.4	39.9	37.8
85°	46.2	44.1	52.5	54.6	65.1	60.9	50.4	37.8	29.4	21.0	18.9
87.5°	12.6	12.6	14.7	14.7	12.6	10.5	10.5	10.5	8.4	6.3	6.3
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)