

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: P382813

Luminaire Tested: **GLEON-SA1D-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7882.8 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

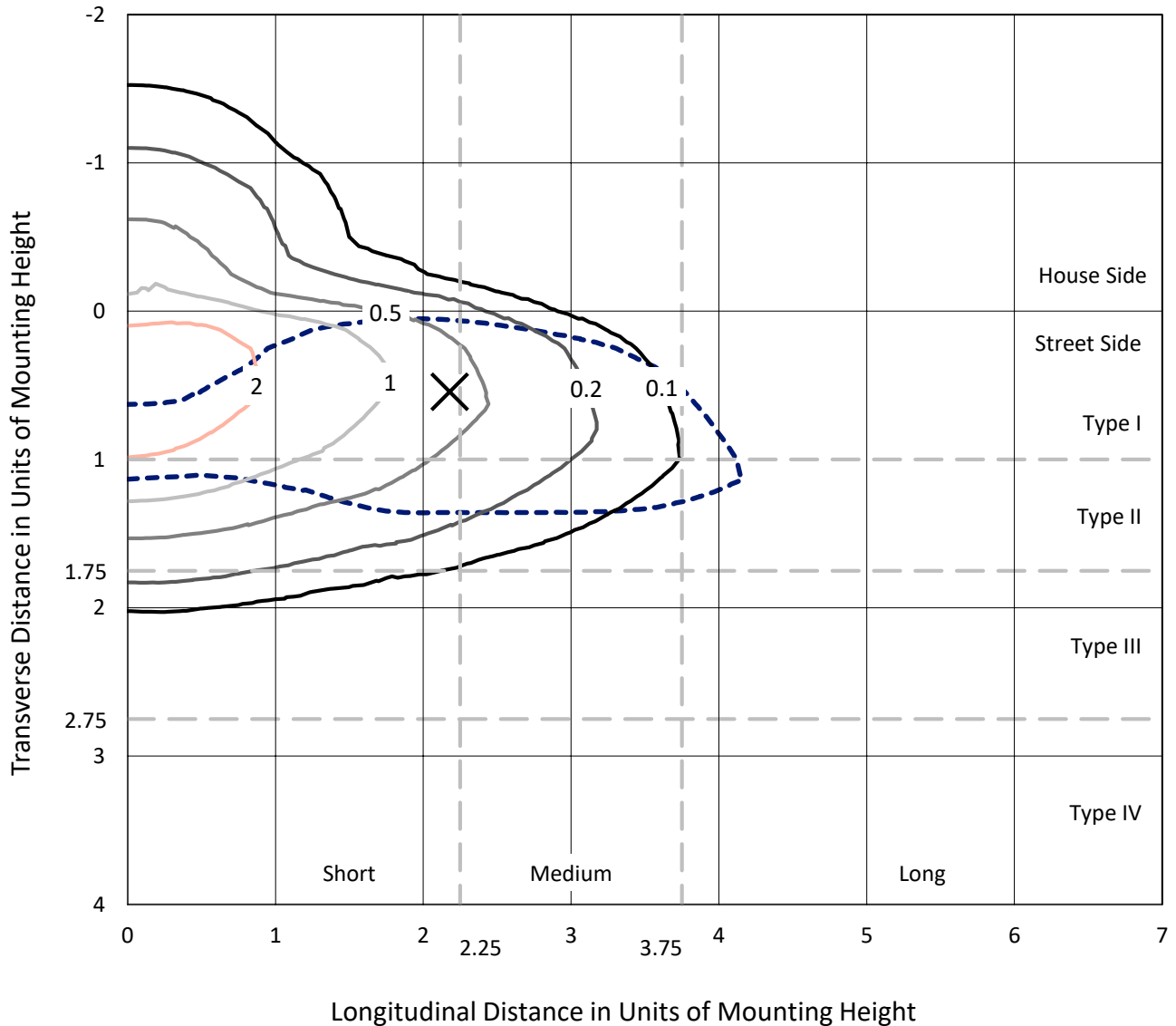
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

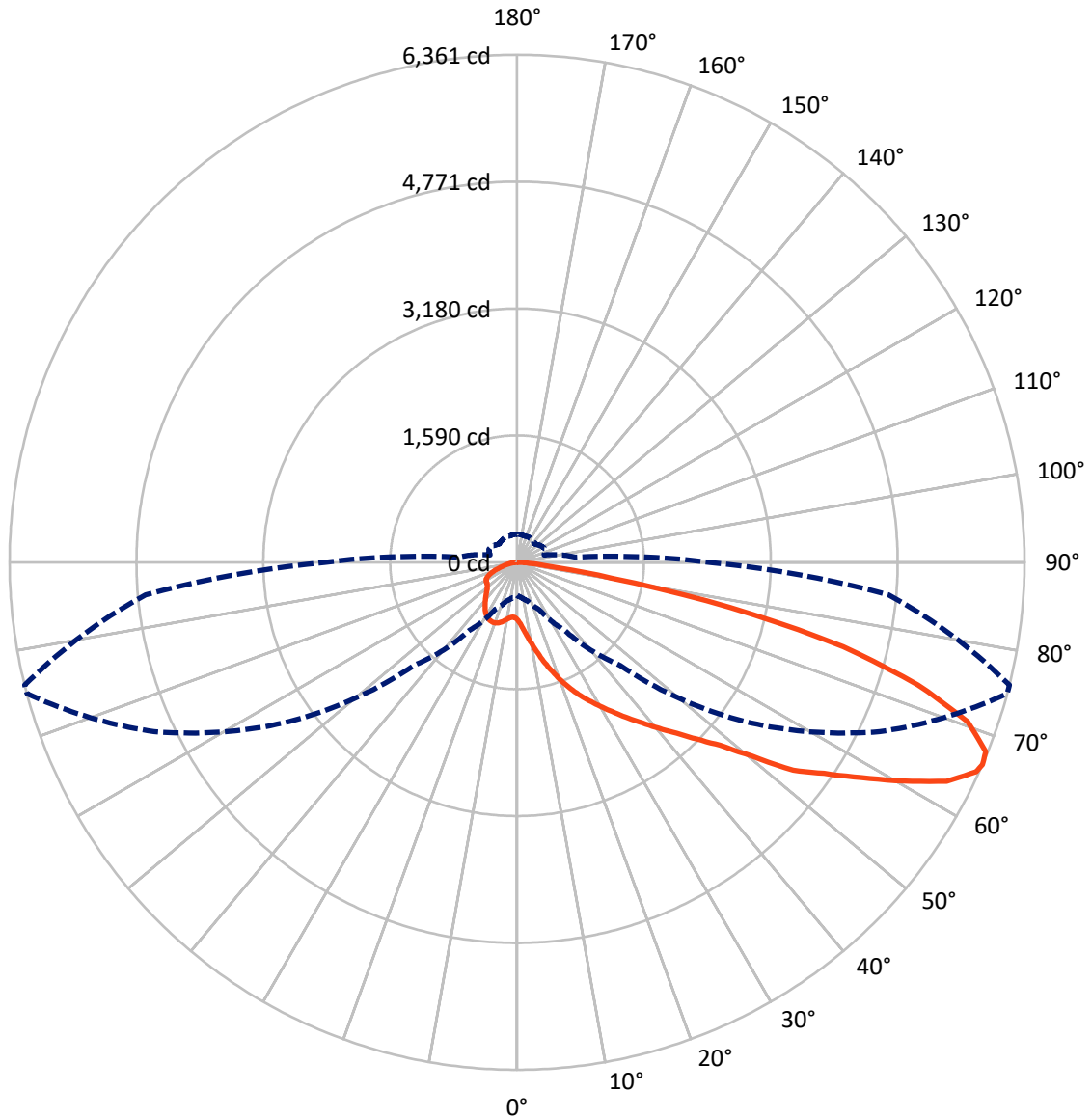
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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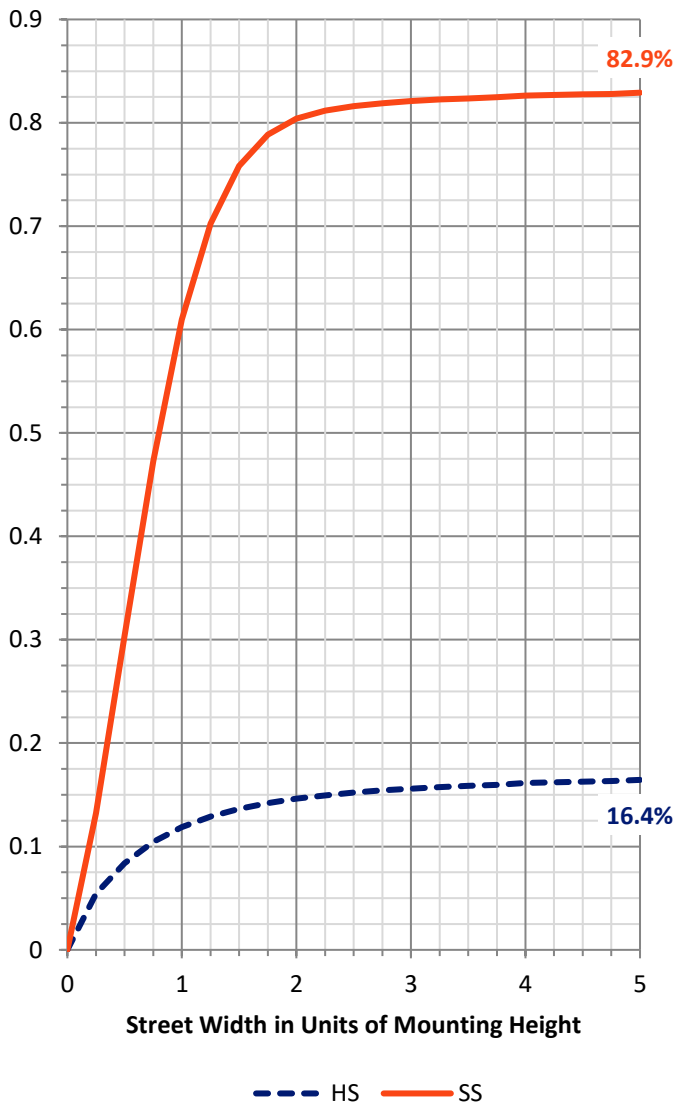
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1326.4	0.0	1326.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	6556.4	0.0	6556.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	7882.8	0.0	7882.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	1.1
10°-20°	343.8	4.4
20°-30°	668.0	8.5
30°-40°	1090.4	13.8
40°-50°	1489.7	18.9
50°-60°	1735.2	22.0
60°-70°	1555.6	19.7
70°-80°	786.1	10.0
80°-90°	126.9	1.6
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°	7882.8	100.0
0°-180°	7882.8	100.0

**Coefficient of Utilization**

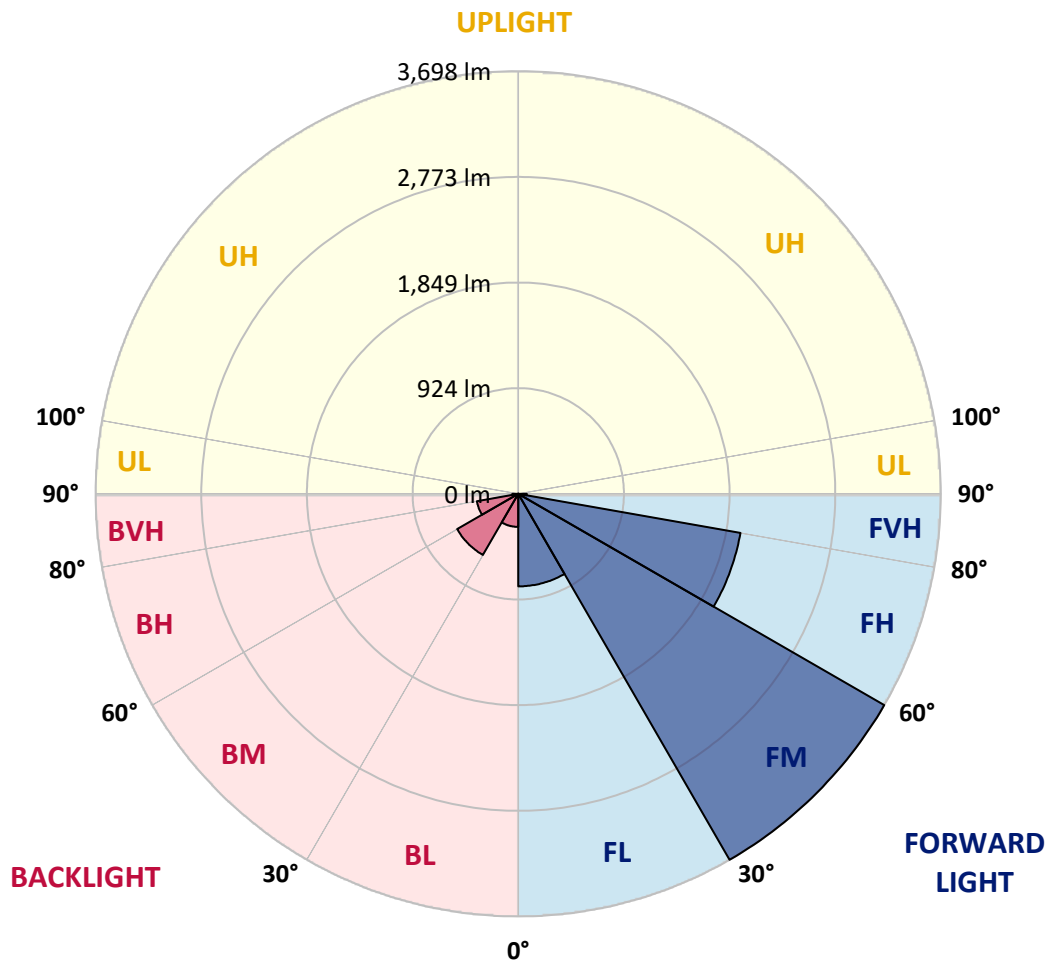


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.5	10.3			
FM (30°-60°)	3697.6	46.9			
FH (60°-80°)	1974.3	25.0			G2/5000
FVH (80°-90°)	75.0	1.0			G1/100
BL (0°-30°)	289.3	3.7	B1/500		
BM (30°-60°)	617.7	7.8	B1/1000		
BH (60°-80°)	367.5	4.7	B1/500		G1/500
BVH (80°-90°)	52.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	955.7	941.1	939.8	918.7	913.8	873.5	843.8	812.8	777.4	770.5	742.6
5°	1227.5	1226.2	1207.8	1173.2	1146.2	1077.1	1008.9	936.7	857.4	844.5	781.9
7.5°	1472.1	1470.0	1455.8	1418.6	1379.5	1294.7	1197.3	1086.5	958.0	939.1	835.2
10°	1657.9	1657.0	1652.2	1624.9	1591.7	1510.4	1402.8	1251.6	1075.0	1049.0	901.8
12.5°	1801.3	1802.9	1806.1	1796.5	1780.7	1711.3	1601.1	1426.7	1199.7	1174.0	976.0
15°	1898.4	1903.2	1919.8	1933.5	1941.8	1899.2	1792.5	1605.7	1339.4	1308.6	1058.1
17.5°	1947.4	1952.8	1981.4	2022.6	2060.6	2056.3	1971.5	1776.4	1473.4	1443.8	1146.5
20°	1989.7	1993.7	2025.8	2075.3	2142.5	2172.2	2124.6	1940.7	1620.4	1585.0	1240.1
22.5°	2112.3	2117.3	2127.0	2155.0	2214.5	2269.1	2246.1	2096.2	1755.0	1722.1	1328.9
25°	2348.8	2355.0	2334.1	2310.3	2321.5	2359.5	2363.8	2238.0	1891.5	1854.2	1424.5
27.5°	2633.9	2642.6	2607.0	2545.8	2492.3	2477.5	2472.4	2354.2	2021.8	1978.7	1519.0
30°	2912.9	2928.2	2881.9	2802.5	2704.2	2635.2	2584.0	2467.9	2150.3	2109.0	1608.0
32.5°	3185.6	3179.5	3112.3	3034.7	2919.7	2833.2	2709.6	2590.0	2294.8	2247.4	1696.6
35°	3372.4	3374.5	3312.2	3220.2	3110.4	3044.1	2877.6	2721.6	2442.2	2398.6	1797.2
37.5°	3531.4	3521.5	3450.8	3364.9	3270.5	3242.1	3074.3	2866.7	2602.0	2554.3	1904.4
40°	3584.4	3572.9	3526.6	3464.8	3389.1	3386.6	3291.3	3031.0	2782.6	2735.5	2025.0
42.5°	3552.3	3537.6	3518.5	3501.7	3478.4	3489.1	3495.3	3223.6	2981.2	2928.5	2164.7
45°	3433.7	3411.5	3424.9	3461.5	3512.1	3572.6	3679.4	3436.9	3203.6	3159.4	2328.8
47.5°	3251.5	3231.4	3273.2	3351.5	3489.1	3642.2	3853.6	3672.4	3469.1	3425.1	2562.4
50°	2995.1	3001.0	3060.7	3203.3	3411.2	3674.3	4068.3	3984.2	3854.9	3814.0	2881.1
52.5°	2574.4	2575.4	2743.5	2977.7	3273.2	3657.7	4187.3	4382.7	4381.9	4332.3	3184.6
55°	2183.7	2207.5	2340.5	2651.7	3049.4	3591.3	4270.5	4576.4	4727.9	4669.8	3467.4
57.5°	1802.1	1816.1	1942.1	2254.6	2730.2	3414.4	4355.9	4808.9	5126.6	5090.0	3819.1
60°	1368.1	1389.4	1519.7	1808.5	2321.8	3100.6	4363.9	5051.7	5603.3	5566.3	4211.6
62.5°	888.0	924.8	1046.9	1317.5	1827.8	2649.0	4177.7	5210.4	6055.0	6041.8	4560.1
65°	510.3	538.2	623.0	831.8	1260.9	2082.3	3734.8	5149.4	6333.0	6325.5	4690.4
66°	417.0	434.3	499.4	650.0	1040.4	1828.6	3477.4	5020.7	6360.6	6360.9	4675.4
67.5°	333.4	341.2	370.4	465.4	767.8	1449.4	3017.3	4736.7	6326.3	6335.7	4578.8
70°	275.9	279.9	289.1	312.1	419.1	874.0	2141.7	3998.9	5982.4	5989.7	4201.7
72.5°	247.5	249.9	253.5	256.6	295.7	488.4	1308.1	3199.0	5245.2	5254.6	3627.2
75°	224.2	225.6	225.1	225.3	248.1	311.2	676.0	2388.4	4241.1	4222.3	2778.6
77.5°	196.9	198.3	195.6	196.2	219.5	239.2	336.4	1672.0	2862.1	2729.9	1565.6
80°	166.5	167.5	166.5	168.3	191.1	180.6	195.6	940.7	1265.5	1197.0	556.6
82.5°	125.8	130.3	133.6	141.0	157.3	128.5	130.9	366.4	385.4	366.9	170.8
85°	55.1	67.2	100.6	107.9	118.3	77.0	85.9	149.3	156.8	152.0	62.0
87.5°	14.4	15.7	49.7	62.6	65.6	34.7	44.7	68.0	71.7	68.0	20.6
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°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	727.9	714.8	691.2	670.3	654.6	643.9	633.2	627.8	624.6	621.4	621.9
5°	751.2	724.7	684.3	655.6	639.6	629.4	624.0	621.9	620.6	617.3	617.3
7.5°	786.2	748.8	693.1	663.6	651.1	643.3	640.2	639.0	637.5	633.7	634.2
10°	830.4	777.9	711.6	682.9	671.5	662.9	658.3	656.7	653.8	649.5	650.0
12.5°	882.3	814.1	735.9	705.9	692.0	680.5	673.0	668.5	663.4	657.8	658.0
15°	939.1	853.4	762.2	726.6	707.6	691.5	679.5	671.7	663.6	656.7	656.5
17.5°	996.6	891.4	782.2	737.8	712.1	690.9	674.6	662.6	652.7	644.2	643.3
20°	1058.7	925.7	793.5	736.8	703.5	678.4	656.7	641.7	630.8	622.2	620.9
22.5°	1121.9	957.8	795.4	725.8	684.6	653.8	631.0	614.4	603.2	594.3	591.2
25°	1179.6	982.7	787.6	704.6	658.0	624.9	602.6	585.8	576.7	566.3	563.0
27.5°	1232.3	1000.0	772.1	677.6	628.3	595.7	574.9	560.4	550.5	542.4	539.7
30°	1279.8	1009.4	746.6	645.5	597.9	568.2	550.5	540.6	532.0	521.9	520.0
32.5°	1324.7	1009.4	714.0	610.4	567.6	543.7	533.3	527.2	517.6	507.7	505.0
35°	1369.7	1003.3	675.5	573.7	539.7	526.4	525.9	518.6	503.9	490.6	487.0
37.5°	1417.0	990.7	632.1	539.5	517.0	518.6	523.2	507.1	486.3	467.3	462.1
40°	1470.5	973.3	587.2	509.8	498.0	515.1	516.0	490.6	449.8	432.4	428.0
42.5°	1533.4	955.9	545.4	483.6	483.0	504.7	502.3	454.7	430.3	421.5	419.1
45°	1616.1	946.0	505.8	458.7	471.3	487.9	479.0	434.8	424.7	419.6	417.4
47.5°	1746.5	951.1	469.4	438.9	459.5	471.0	435.7	426.8	419.6	413.4	411.3
50°	1909.7	948.1	440.0	425.3	446.1	453.3	416.1	416.4	412.7	405.7	402.5
52.5°	2032.5	925.1	421.0	417.4	434.3	422.0	403.8	406.2	404.4	394.2	390.7
55°	2151.0	905.4	411.3	414.5	425.8	383.0	389.4	395.3	393.4	383.5	381.8
57.5°	2298.5	901.6	405.4	415.4	418.5	363.4	375.4	383.2	381.8	377.6	376.8
60°	2479.1	902.7	400.1	416.7	410.5	349.0	362.4	372.2	373.1	372.2	371.7
62.5°	2578.4	873.5	386.7	413.0	396.4	336.4	348.7	363.1	363.4	365.0	364.8
65°	2494.1	786.2	361.8	399.8	372.5	325.9	336.9	352.7	348.7	355.9	355.9
66°	2412.2	735.9	349.5	391.2	362.4	321.9	333.2	347.4	342.3	352.2	352.2
67.5°	2245.0	651.1	327.3	373.1	347.9	316.4	328.9	338.5	331.5	346.3	345.2
70°	1939.4	503.7	282.6	331.8	324.1	308.1	323.0	320.8	310.7	333.2	328.9
72.5°	1635.1	382.7	226.9	277.8	287.9	297.6	314.7	298.4	285.5	301.4	291.9
75°	1268.8	287.7	179.3	215.9	243.2	281.2	304.8	272.4	253.9	252.4	247.2
77.5°	685.9	197.5	142.1	164.9	193.2	260.9	298.1	244.6	216.8	210.3	206.3
80°	271.6	128.5	103.3	125.0	135.2	231.5	282.1	212.2	178.8	172.3	166.2
82.5°	112.2	76.0	66.6	83.7	88.0	198.0	253.2	173.9	138.1	191.1	202.9
85°	48.2	41.7	39.6	43.3	49.7	138.9	201.5	132.7	149.0	133.0	105.7
87.5°	14.4	17.7	16.9	16.6	18.2	33.2	107.3	73.9	109.5	41.5	31.0
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)