

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: P322356

Luminaire Tested: **GLEON-SA2B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6265 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

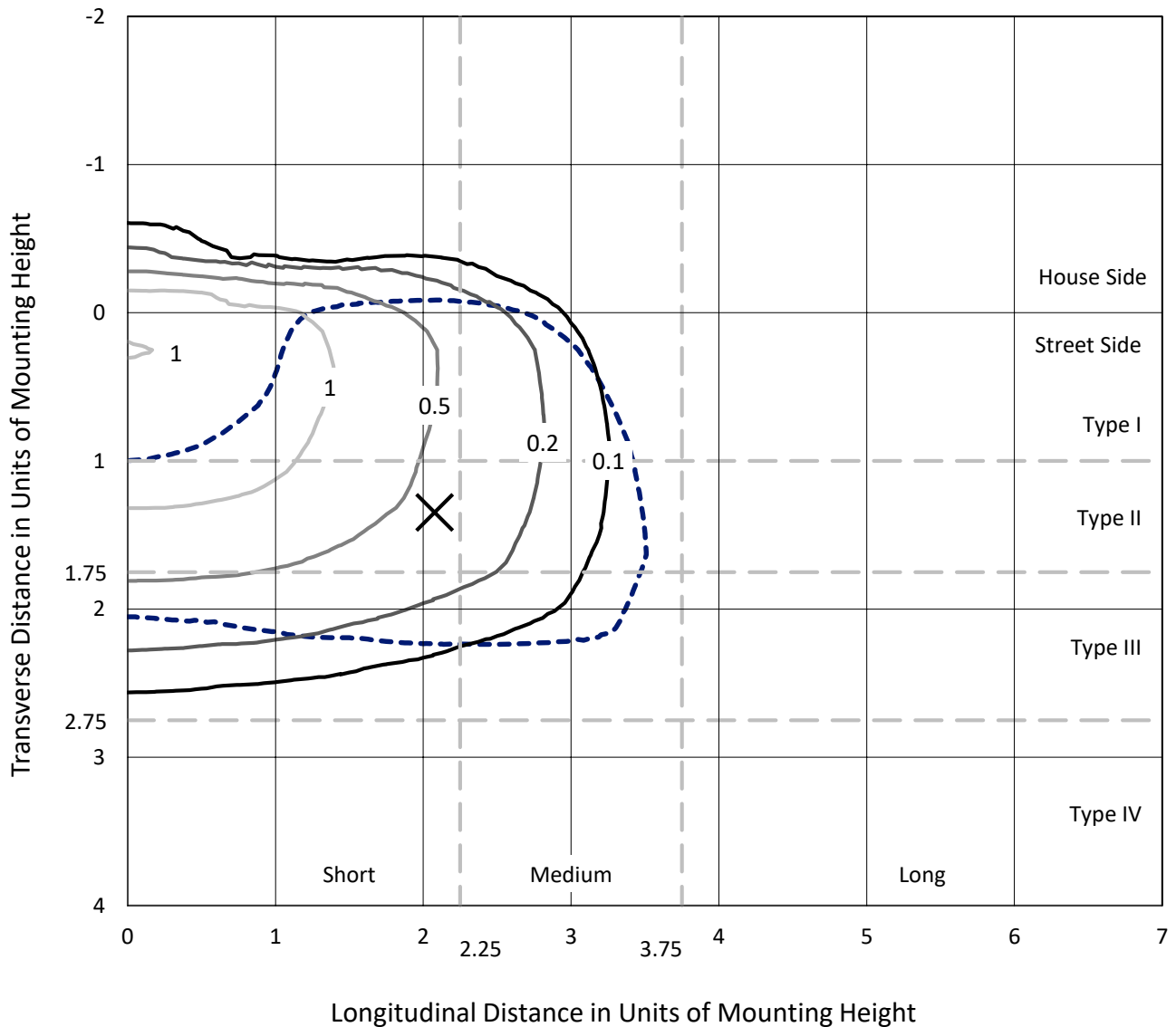
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

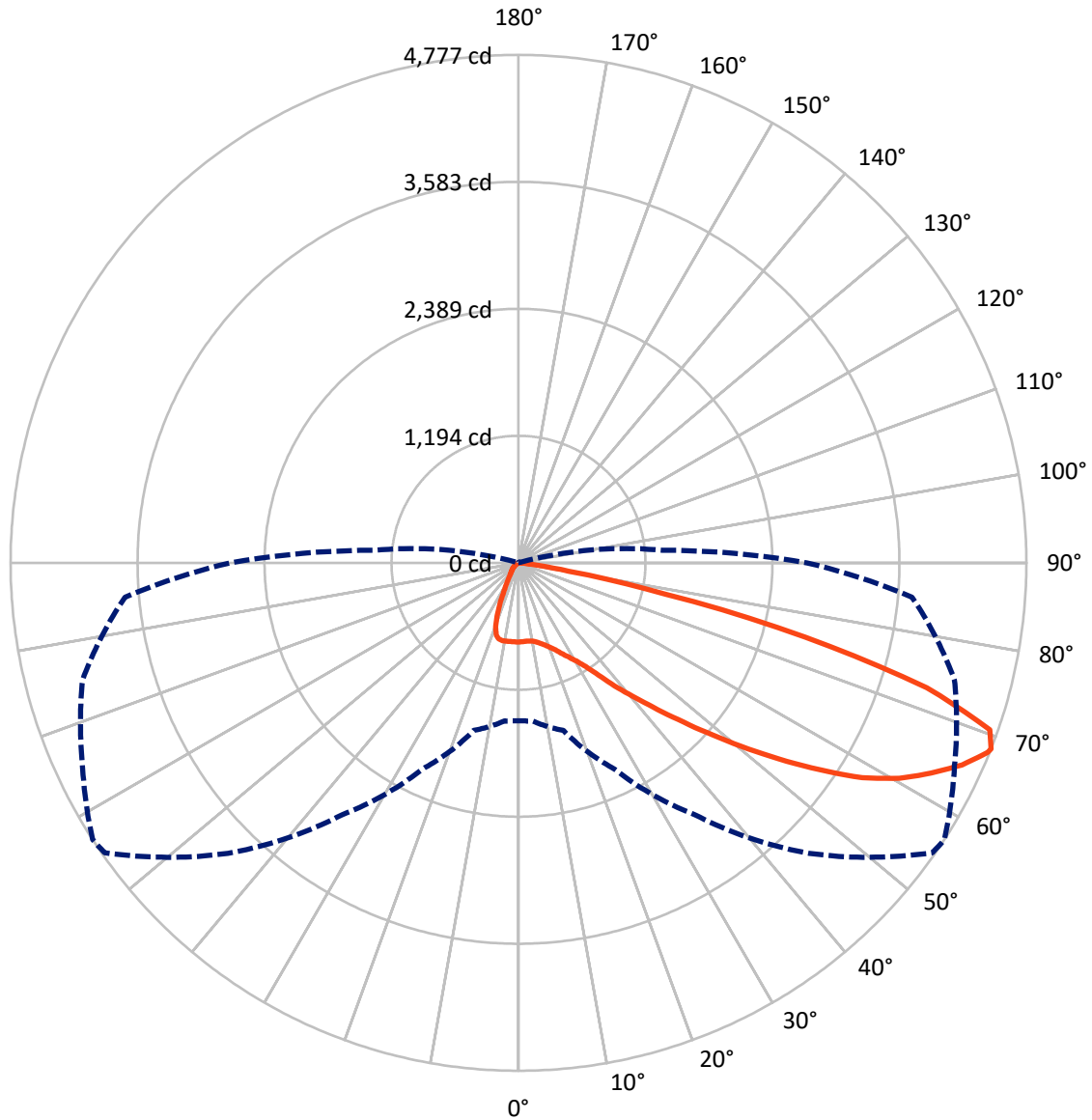
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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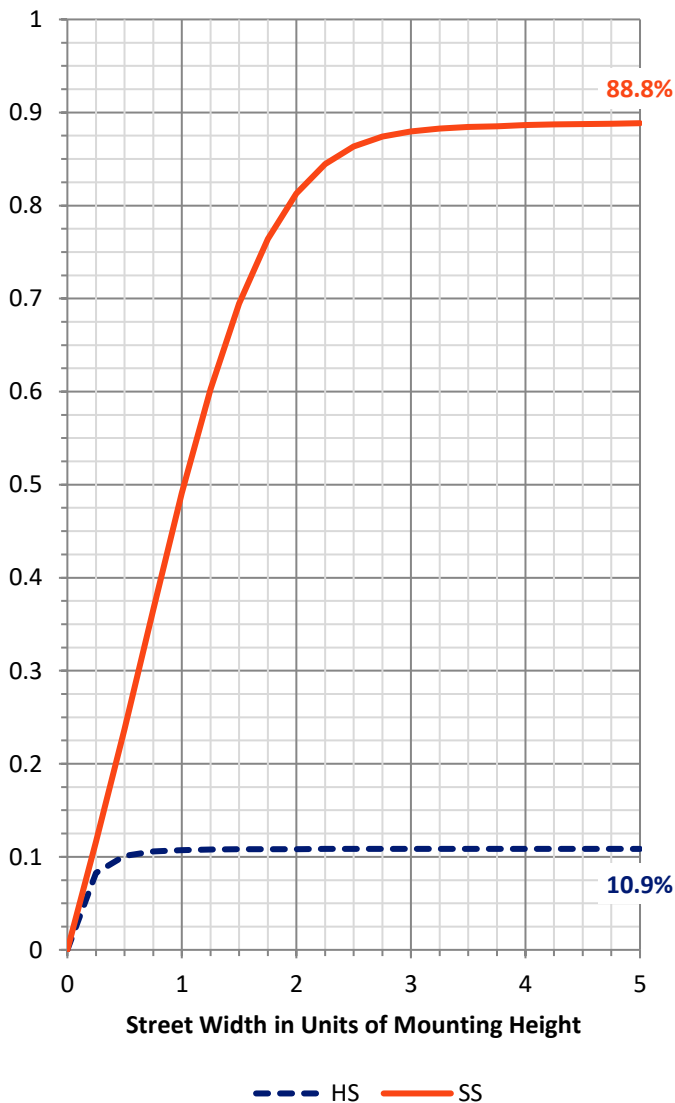
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.0	0.0	687.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5578.0	0.0	5578.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	6265.0	0.0	6265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.1
10°-20°	193.1	3.1
20°-30°	333.0	5.3
30°-40°	574.8	9.2
40°-50°	983.2	15.7
50°-60°	1573.1	25.1
60°-70°	1817.5	29.0
70°-80°	694.5	11.1
80°-90°	26.0	0.4
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°	6265.0	100.0
0°-180°	6265.0	100.0

Coefficient of Utilization

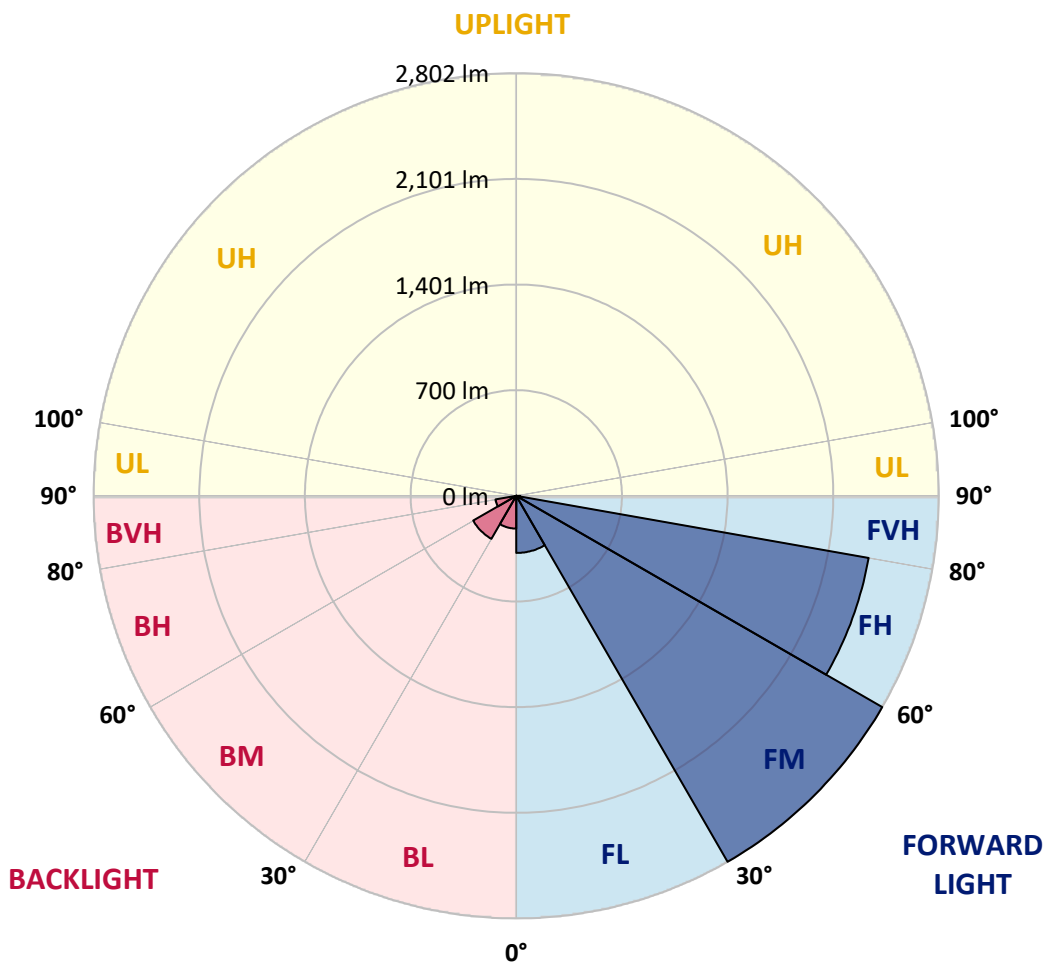


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.7	6.0			
FM (30°-60°)	2801.7	44.7			
FH (60°-80°)	2372.1	37.9			G2/5000
FVH (80°-90°)	25.6	0.4			G1/100
BL (0°-30°)	217.1	3.5	B1/500		
BM (30°-60°)	329.5	5.3	B1/1000		
BH (60°-80°)	139.9	2.2	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	727.0	730.2	732.6	734.1	735.9	739.7	740.9	742.7	743.6	743.6	745.6
5°	698.2	701.8	706.8	711.0	719.3	729.9	737.6	740.6	745.9	750.7	753.3
7.5°	671.6	675.7	681.6	691.4	705.6	722.8	738.8	743.0	753.3	763.4	768.4
10°	654.4	657.6	665.4	679.3	697.9	721.9	744.4	749.5	767.3	784.1	793.6
12.5°	648.5	651.4	659.4	675.1	698.2	726.4	757.5	764.9	791.0	815.5	828.9
15°	657.1	657.6	666.2	681.1	703.9	737.3	779.1	788.0	820.9	852.9	869.5
17.5°	690.2	687.6	692.0	698.5	716.6	751.9	801.9	815.2	859.1	896.7	912.4
20°	773.2	773.2	763.1	745.3	745.6	774.4	832.7	847.8	901.5	945.0	959.2
22.5°	915.1	912.4	892.3	848.7	808.7	813.2	870.3	889.9	952.4	998.9	1003.7
25°	1085.7	1082.5	1051.4	990.0	920.7	876.0	921.3	943.8	1013.1	1054.3	1044.5
27.5°	1266.4	1263.8	1232.9	1156.8	1058.2	976.1	982.0	1003.4	1075.0	1115.6	1084.5
30°	1441.5	1442.4	1411.9	1333.7	1222.0	1103.8	1059.1	1071.5	1135.2	1176.4	1131.9
32.5°	1608.0	1609.2	1582.8	1495.4	1391.1	1252.2	1165.7	1162.4	1205.1	1245.7	1194.7
35°	1756.4	1759.4	1741.3	1673.5	1563.0	1417.5	1304.0	1296.3	1304.3	1350.3	1291.0
37.5°	1899.5	1901.3	1887.6	1830.5	1738.0	1599.1	1478.8	1467.9	1450.7	1485.9	1418.1
40°	2056.2	2051.7	2036.0	1984.2	1904.8	1799.6	1666.6	1647.7	1617.8	1649.2	1585.2
42.5°	2201.9	2196.9	2199.6	2140.9	2074.0	2005.8	1885.6	1853.0	1835.5	1871.6	1790.2
45°	2384.1	2381.5	2390.3	2339.4	2285.2	2235.7	2136.5	2100.9	2093.2	2135.6	2038.1
47.5°	2563.9	2570.5	2598.0	2576.4	2554.5	2510.9	2402.2	2386.2	2390.9	2442.2	2299.7
50°	2713.8	2721.5	2797.1	2822.0	2853.7	2828.2	2719.2	2709.4	2728.1	2774.3	2581.1
52.5°	2822.3	2838.0	2931.9	3046.5	3162.0	3179.2	3070.5	3061.6	3086.8	3093.9	2798.6
55°	2897.5	2911.4	3017.8	3227.5	3462.7	3536.8	3469.2	3434.9	3430.1	3359.9	3027.3
57.5°	2910.8	2909.4	3062.2	3344.5	3698.5	3889.6	3847.0	3813.2	3716.0	3605.8	3289.4
60°	2835.6	2844.2	3021.6	3385.1	3846.7	4156.5	4159.8	4115.9	3964.6	3844.9	3543.6
62.5°	2603.9	2638.9	2818.1	3278.8	3844.9	4264.1	4389.1	4355.6	4174.6	4040.7	3801.3
65°	2228.3	2240.7	2411.7	2914.4	3585.1	4219.0	4595.5	4583.1	4363.9	4230.9	3933.8
67.5°	1627.2	1600.3	1779.8	2295.0	3035.3	3956.6	4743.7	4759.4	4509.9	4270.0	3792.7
68°	1485.0	1493.0	1632.9	2141.8	2891.3	3863.8	4753.4	4777.4	4524.4	4244.5	3715.7
70°	885.2	900.6	1025.3	1474.7	2199.6	3339.2	4648.0	4702.8	4437.9	3981.7	3213.9
72.5°	226.0	244.4	362.3	660.0	1256.3	2352.7	3923.7	4016.4	3853.2	3230.2	2169.7
75°	93.0	97.8	129.5	217.4	468.1	1059.9	2586.2	2784.6	2671.2	1933.8	980.5
77.5°	64.3	67.5	83.2	120.6	202.6	359.3	1267.9	1411.3	1271.5	660.0	213.9
80°	46.2	48.9	59.5	80.3	116.4	128.3	413.3	477.8	379.5	144.9	53.0
82.5°	27.6	29.6	44.4	57.2	70.8	61.3	102.8	116.7	109.9	72.0	23.7
85°	13.6	16.0	29.9	40.9	38.2	25.8	31.4	35.0	43.3	43.8	12.7
87.5°	0.9	1.8	17.5	24.6	10.7	5.9	9.2	11.3	15.4	21.6	5.3
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°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	746.5	746.8	744.7	743.9	744.4	740.9	739.4	740.0	740.0	740.9	739.4
5°	753.9	753.9	750.4	745.6	743.0	736.2	731.7	730.5	729.6	729.0	727.9
7.5°	769.9	768.1	761.9	751.6	742.7	727.9	716.6	710.7	707.7	706.5	705.6
10°	795.7	792.4	782.1	762.8	742.4	716.0	691.4	673.9	659.4	653.5	649.9
12.5°	830.4	825.6	808.1	776.1	740.3	691.7	638.4	587.1	539.5	519.9	510.1
15°	870.3	863.5	836.0	787.4	728.2	636.9	521.1	431.3	365.3	340.4	329.7
17.5°	910.9	902.0	860.3	794.5	691.7	523.5	365.6	276.1	232.0	220.1	216.0
20°	951.8	938.8	881.3	789.2	609.4	377.4	241.1	201.7	189.0	185.4	184.3
22.5°	990.6	970.5	900.3	768.4	482.6	253.3	190.8	178.3	174.2	172.1	171.5
25°	1024.4	996.2	916.9	704.5	341.6	191.4	171.8	167.7	162.3	158.5	158.8
27.5°	1056.1	1022.0	926.9	599.0	227.8	163.5	159.1	153.5	143.7	138.0	138.0
30°	1094.3	1056.4	934.3	460.9	167.7	144.6	141.0	132.4	119.1	111.7	111.7
32.5°	1151.8	1108.5	929.6	323.5	138.9	127.1	118.8	106.9	92.4	85.3	85.0
35°	1239.8	1189.1	895.8	212.1	122.6	110.5	97.2	82.7	69.9	64.0	63.7
37.5°	1358.3	1296.9	820.0	151.7	109.9	95.1	79.1	63.1	53.6	49.8	49.5
40°	1512.0	1422.2	711.6	122.9	98.1	80.3	61.0	48.9	42.4	39.4	39.7
42.5°	1696.6	1556.4	581.5	106.1	86.5	66.1	47.7	38.5	34.4	32.3	31.7
45°	1901.6	1688.9	445.2	94.5	74.9	53.3	37.3	30.5	27.3	26.1	26.1
47.5°	2127.0	1817.7	325.9	84.4	62.5	41.2	29.9	24.9	22.2	21.3	21.0
50°	2331.7	1907.2	234.9	73.8	51.2	32.6	24.3	20.7	19.0	17.8	17.8
52.5°	2502.3	1935.3	173.0	62.2	41.5	26.1	20.1	17.8	16.0	15.1	15.1
55°	2652.5	1923.8	128.6	51.2	33.5	21.3	17.2	15.1	13.6	12.7	12.7
57.5°	2796.5	1886.4	96.0	41.8	27.0	17.2	14.5	12.7	11.3	10.7	10.7
60°	2914.1	1824.2	71.4	33.8	21.6	13.9	12.1	10.4	9.2	8.3	8.3
62.5°	3009.5	1755.5	52.4	27.8	17.2	11.0	9.5	8.6	6.8	5.9	5.9
65°	3010.1	1641.5	39.4	23.1	13.3	8.6	7.1	6.8	4.4	3.6	3.3
67.5°	2792.3	1415.1	30.2	19.8	10.4	6.5	5.3	5.6	2.4	1.5	1.2
68°	2713.2	1357.7	28.4	19.6	9.8	6.2	5.0	5.6	2.1	1.2	0.9
70°	2287.6	1080.1	22.8	19.0	8.6	4.7	4.1	5.6	1.8	0.9	0.6
72.5°	1463.1	626.8	16.9	15.1	6.5	3.6	2.7	5.0	1.8	0.6	0.3
75°	622.7	194.3	11.6	10.7	3.9	2.7	1.8	3.3	1.2	0.3	0.0
77.5°	131.2	43.8	6.8	6.5	2.7	1.8	1.2	0.9	0.3	0.0	0.0
80°	33.8	12.7	3.6	3.3	1.5	0.9	0.6	0.0	0.0	0.0	0.0
82.5°	10.7	5.0	2.1	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)