

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: P526787

Luminaire Tested: **GALN-SA1D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

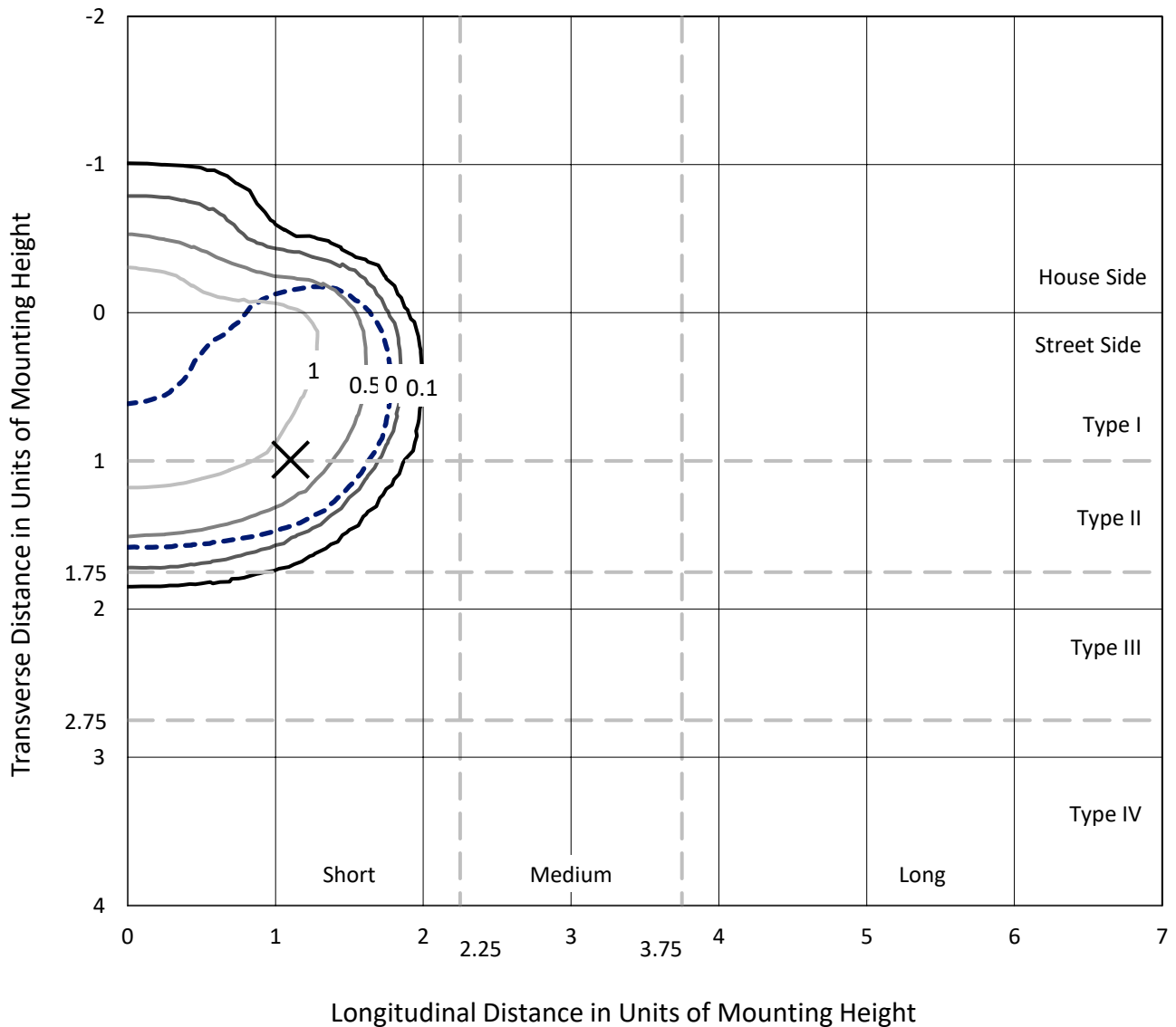
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

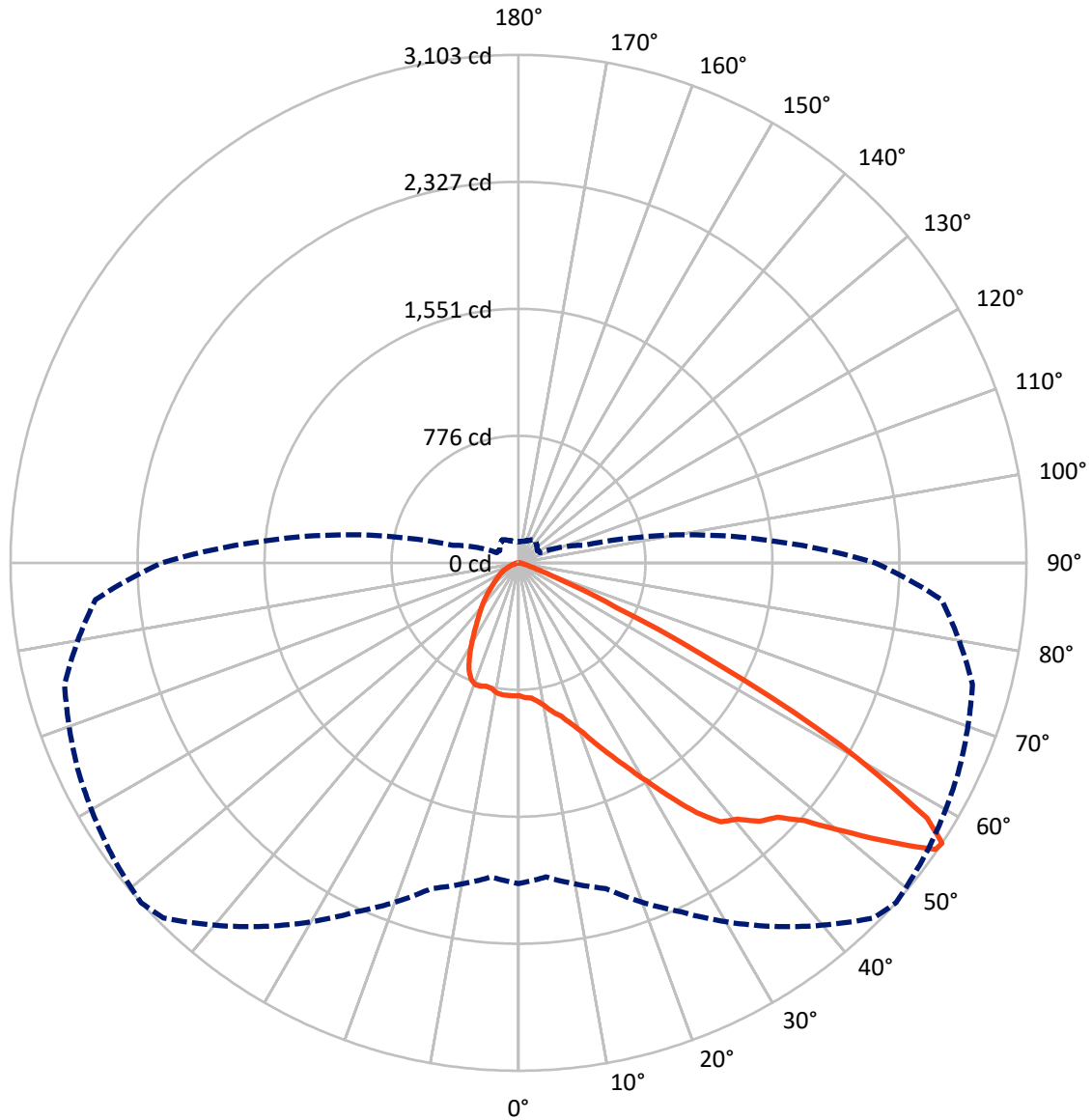
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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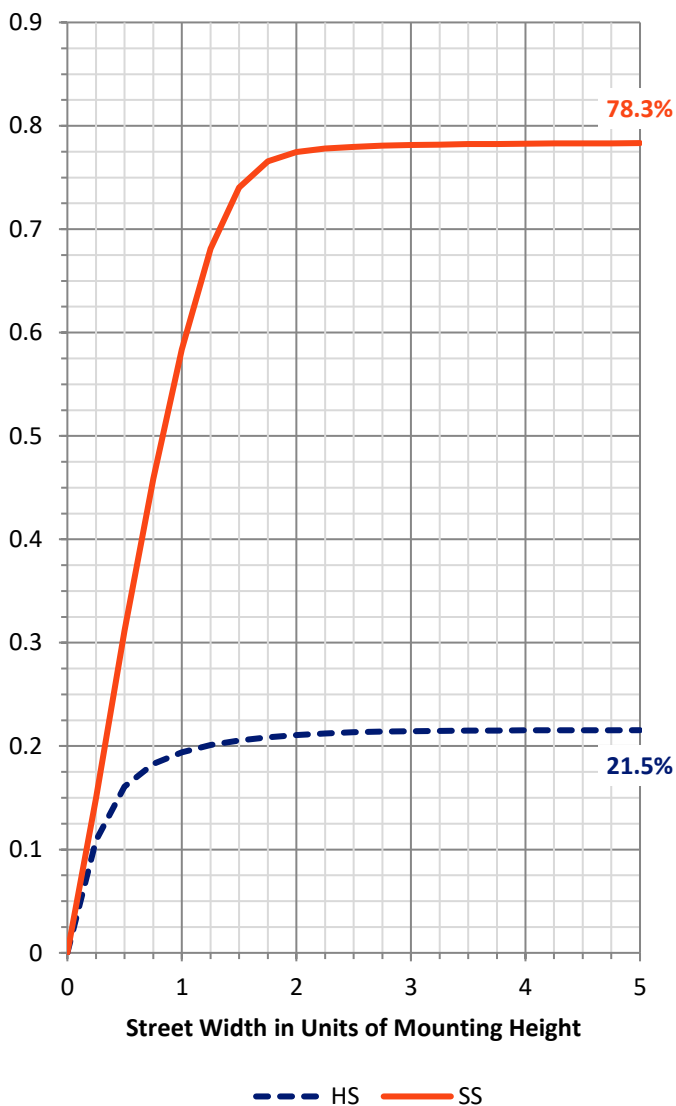
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	925.8	0.0	925.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3331.2	0.0	3331.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4257.0	0.0	4257.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	1.9
10°-20°	253.1	5.9
20°-30°	459.1	10.8
30°-40°	721.2	16.9
40°-50°	1052.1	24.7
50°-60°	1267.5	29.8
60°-70°	371.1	8.7
70°-80°	47.1	1.1
80°-90°	6.6	0.2
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°	4257.0	100.0
0°-180°	4257.0	100.0

**Coefficient of Utilization**

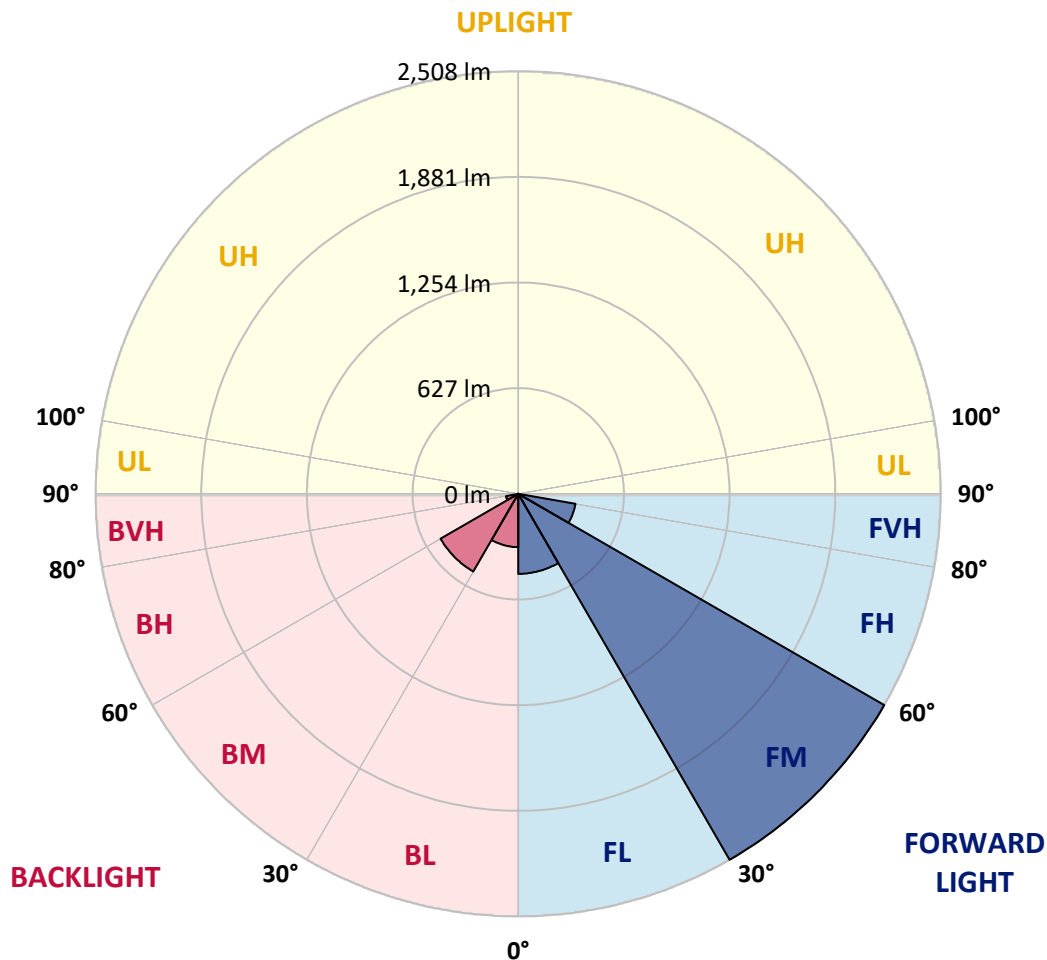


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.0	11.2			
FM (30°-60°)	2508.2	58.9			
FH (60°-80°)	344.6	8.1			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	316.4	7.4	B1/500		
BM (30°-60°)	532.5	12.5	B1/1000		
BH (60°-80°)	73.6	1.7	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1
2.5°	827.8	823.9	823.9	817.7	824.7	821.6	823.9	816.2	823.9	812.3	821.6
5°	831.7	832.5	829.4	833.2	833.2	837.9	830.1	837.1	841.0	832.5	828.6
7.5°	851.8	853.4	852.6	849.5	855.7	854.9	854.2	848.7	850.3	847.2	842.5
10°	891.4	890.6	894.5	886.7	882.1	887.5	889.0	880.5	874.3	872.0	857.3
12.5°	948.7	939.4	934.0	926.3	928.6	920.8	934.8	920.1	917.0	903.0	888.3
15°	995.2	993.7	994.5	982.1	968.1	971.2	971.2	963.5	958.8	941.8	920.8
17.5°	1090.6	1058.0	1065.0	1049.5	1037.9	1037.1	1030.1	1031.7	1019.3	983.6	951.8
20°	1165.0	1151.0	1140.2	1113.8	1096.0	1101.4	1098.3	1090.6	1086.7	1040.2	995.2
22.5°	1231.6	1236.3	1218.5	1211.5	1186.7	1189.0	1195.2	1188.2	1158.8	1110.7	1044.1
25°	1325.4	1320.0	1296.0	1287.5	1264.2	1272.7	1296.8	1291.3	1272.7	1185.9	1082.1
27.5°	1436.3	1417.7	1422.3	1383.6	1361.1	1385.1	1413.8	1440.9	1388.2	1274.3	1127.0
30°	1514.6	1495.2	1493.6	1492.1	1486.7	1514.6	1547.9	1572.7	1530.1	1362.6	1201.4
32.5°	1553.3	1558.0	1571.1	1566.5	1613.8	1671.1	1706.0	1741.7	1688.2	1506.8	1299.9
35°	1656.4	1627.0	1656.4	1659.5	1708.3	1830.0	1874.2	1959.5	1946.3	1710.7	1420.0
37.5°	1716.9	1714.5	1718.4	1747.9	1795.2	1945.5	2008.3	2074.2	2049.4	1833.1	1569.6
40°	1816.9	1823.1	1822.3	1844.8	1896.7	2032.3	2057.9	2111.4	2113.7	2002.9	1789.7
42.5°	1977.3	1952.5	1936.2	1959.5	2032.3	2107.5	2158.7	2147.8	2224.6	2209.1	2072.6
45°	2121.5	2136.2	2112.2	2150.9	2177.3	2217.6	2216.0	2239.3	2337.0	2410.6	2285.8
47.5°	2256.3	2265.6	2277.3	2303.6	2361.0	2367.2	2354.0	2343.9	2478.8	2554.8	2450.9
50°	2337.0	2345.5	2399.7	2447.0	2554.0	2567.9	2575.7	2550.1	2641.6	2650.1	2606.7
52.5°	2315.2	2324.6	2400.5	2556.3	2726.8	2854.7	2831.5	2788.1	2782.6	2816.0	2750.9
55°	2123.0	2114.5	2219.1	2461.7	2781.1	3088.0	3091.1	3045.4	2957.8	2935.3	2729.2
56°	1959.5	1926.1	2059.5	2352.5	2711.3	3067.9	3102.8	3053.9	2971.8	2871.0	2595.1
57.5°	1605.2	1637.0	1769.6	2012.2	2470.3	2922.9	2943.1	2931.5	2869.5	2700.5	2283.5
60°	885.2	941.0	1058.0	1354.9	1758.7	2243.2	2259.4	2354.0	2365.6	2068.0	1571.1
62.5°	375.9	369.7	491.4	710.0	1001.4	1354.1	1384.3	1481.2	1499.1	1192.1	788.3
65°	152.7	161.2	222.5	357.3	529.4	617.0	659.6	691.4	750.3	492.2	290.7
67.5°	100.8	100.0	131.0	203.9	285.2	275.2	275.2	290.7	269.0	200.8	125.6
70°	72.1	74.4	93.8	141.1	177.5	131.8	126.3	120.9	137.2	132.5	101.5
72.5°	47.3	50.4	62.8	84.5	92.2	72.1	72.1	86.8	113.2	107.0	82.9
75°	31.0	31.8	38.8	48.8	45.7	37.2	41.1	58.1	82.2	79.1	58.9
77.5°	20.9	21.7	26.4	31.8	25.6	20.9	22.5	29.5	40.3	40.3	31.0
80°	7.8	8.5	10.9	10.1	11.6	14.7	16.3	20.2	24.0	24.0	20.9
82.5°	0.0	0.8	2.3	5.4	8.5	11.6	13.2	15.5	17.8	20.2	19.4
85°	0.0	0.8	2.3	3.9	6.2	7.0	7.8	5.4	4.7	4.7	3.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0.8	0.8
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°	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1
2.5°	813.1	812.3	812.3	810.0	814.6	812.3	813.9	813.1	803.0	810.8	805.3
5°	821.6	827.0	818.5	817.0	810.8	813.1	813.1	805.3	812.3	811.5	810.0
7.5°	843.3	834.0	824.7	815.4	813.9	811.5	803.0	799.9	805.3	799.1	808.4
10°	852.6	854.2	840.2	827.8	816.2	799.9	788.3	781.3	772.8	782.1	787.5
12.5°	895.3	879.7	855.7	836.3	796.8	780.5	768.9	765.8	780.5	783.6	778.2
15°	910.0	907.7	876.6	833.2	792.2	772.8	775.1	768.9	770.5	762.7	764.3
17.5°	940.2	913.9	877.4	823.2	791.4	786.7	772.8	748.0	734.0	727.8	733.3
20°	973.5	948.0	895.3	827.0	798.4	786.0	740.2	710.0	681.3	665.8	666.6
22.5°	1003.0	971.2	887.5	828.6	804.6	753.4	698.4	638.7	603.0	579.0	579.8
25°	1038.6	993.7	890.6	831.7	788.3	701.5	622.4	564.3	521.6	505.4	510.8
27.5°	1058.8	1007.6	907.7	838.7	745.7	627.8	542.6	488.3	463.5	455.8	455.0
30°	1119.3	1038.6	928.6	824.7	674.3	548.8	469.7	436.4	412.4	405.4	406.9
32.5°	1209.2	1095.2	955.7	788.3	601.5	478.2	422.4	397.6	375.2	362.0	360.4
35°	1284.4	1192.1	984.4	731.7	517.0	424.0	389.1	358.1	324.0	309.3	305.4
37.5°	1427.7	1301.4	978.2	646.4	436.4	383.7	353.4	315.5	286.0	265.9	263.5
40°	1618.4	1429.3	948.0	542.6	376.7	348.0	315.5	279.0	242.6	225.6	224.0
42.5°	1850.2	1585.9	892.9	437.2	317.0	312.4	282.9	241.1	208.5	196.1	196.9
45°	2038.5	1720.0	837.1	351.1	272.8	277.5	251.9	212.4	189.9	179.8	179.8
47.5°	2206.0	1810.7	776.7	289.9	231.8	242.6	220.1	196.9	177.5	169.7	168.2
50°	2367.2	1902.9	716.2	234.9	197.7	208.5	206.2	187.6	172.1	162.8	163.5
52.5°	2467.9	1917.6	639.5	192.2	172.8	185.3	193.0	175.9	158.9	153.5	151.9
55°	2344.7	1727.7	496.1	158.1	146.5	162.8	177.5	158.1	144.9	135.6	134.9
56°	2178.8	1544.8	414.7	145.7	138.7	156.6	172.1	151.1	136.4	131.0	127.1
57.5°	1844.8	1264.2	306.2	129.4	128.7	145.7	163.5	144.2	127.1	122.5	122.5
60°	1150.3	711.5	185.3	108.5	111.6	129.4	147.3	128.7	113.2	113.2	115.5
62.5°	524.0	296.1	112.4	92.2	96.1	111.6	131.0	116.3	107.7	116.3	117.8
65°	178.3	127.9	81.4	73.6	76.0	92.2	112.4	117.8	117.0	122.5	125.6
67.5°	100.0	82.2	68.2	61.2	59.7	68.2	92.2	117.8	113.2	110.8	112.4
70°	84.5	69.8	60.5	54.3	51.9	55.0	71.3	89.1	79.8	77.5	76.0
72.5°	68.2	58.1	52.7	48.8	41.9	35.7	32.6	34.1	38.0	40.3	44.2
75°	48.1	44.2	44.2	39.5	30.2	22.5	17.8	14.7	10.1	7.0	7.8
77.5°	27.1	27.1	27.9	24.0	19.4	14.7	10.9	7.8	3.9	1.6	0.8
80°	18.6	20.2	21.7	19.4	16.3	13.2	9.3	5.4	2.3	0.0	0.0
82.5°	18.6	20.9	22.5	19.4	16.3	12.4	9.3	5.4	2.3	0.8	0.0
85°	3.9	4.7	5.4	6.2	9.3	9.3	7.0	4.7	2.3	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)