

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: P527385

Luminaire Tested: **GALN-SA2B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527385  
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-SA2B-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5023 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

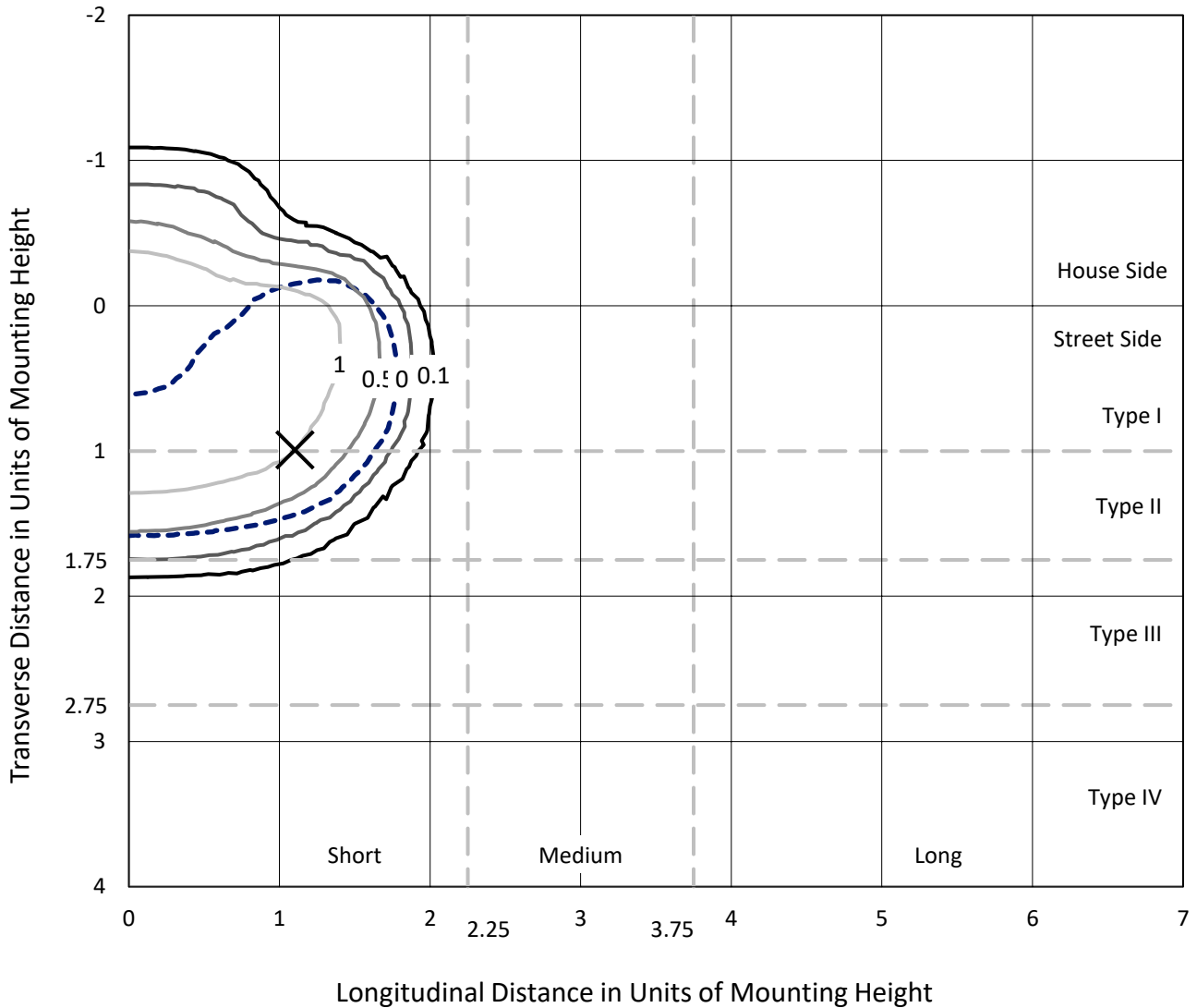
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

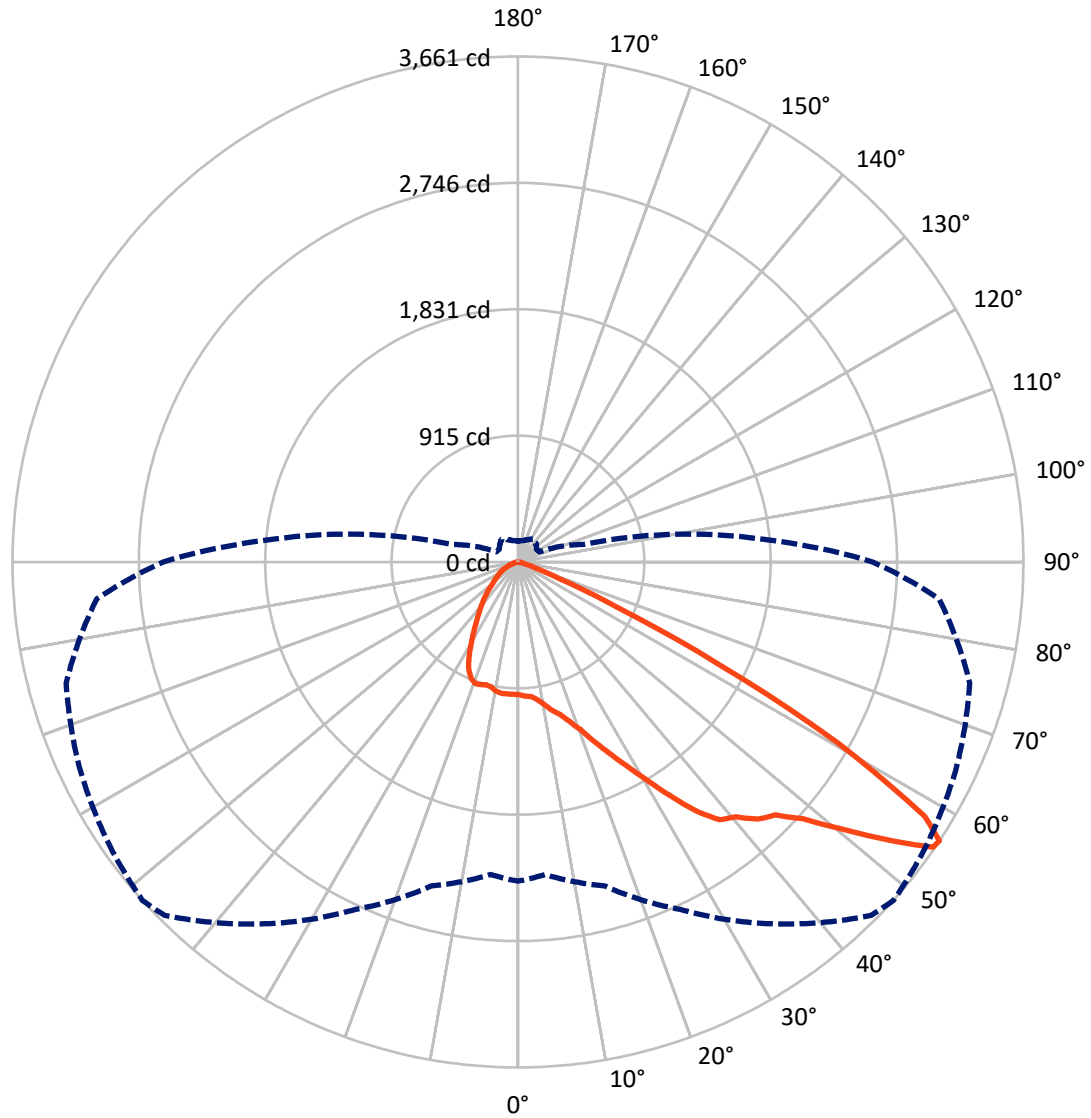
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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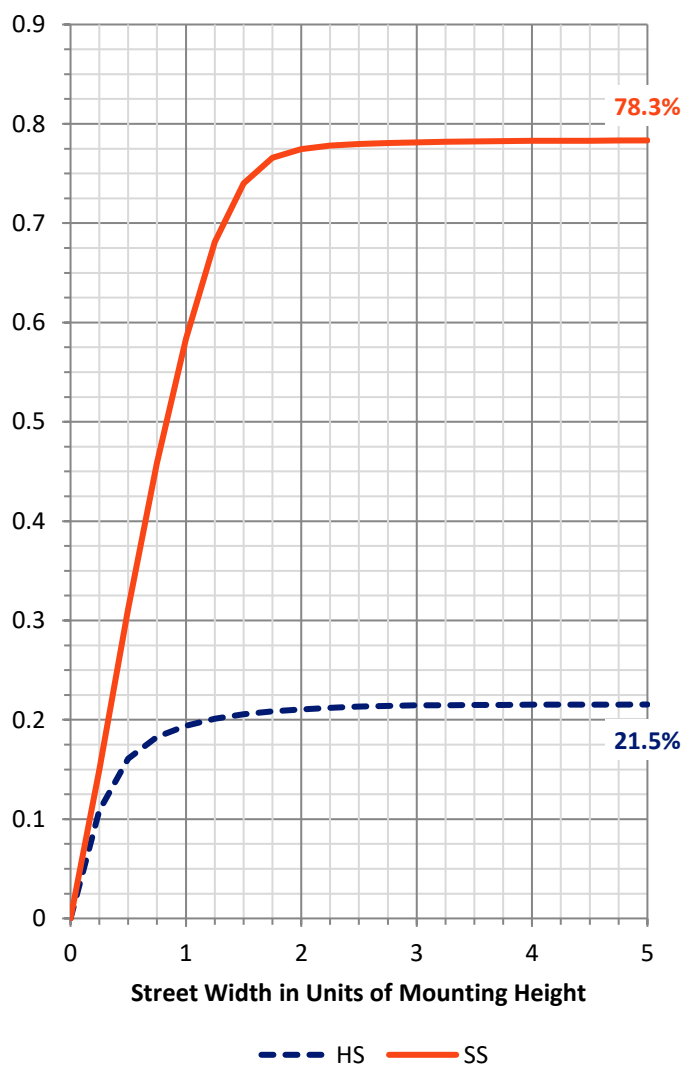
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1092.4	0.0	1092.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3930.6	0.0	3930.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5023.0	0.0	5023.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	1.9
10°-20°	298.7	5.9
20°-30°	541.7	10.8
30°-40°	850.9	16.9
40°-50°	1241.4	24.7
50°-60°	1495.6	29.8
60°-70°	437.9	8.7
70°-80°	55.6	1.1
80°-90°	7.8	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°	5023.0	100.0
0°-180°	5023.0	100.0

**Coefficient of Utilization**

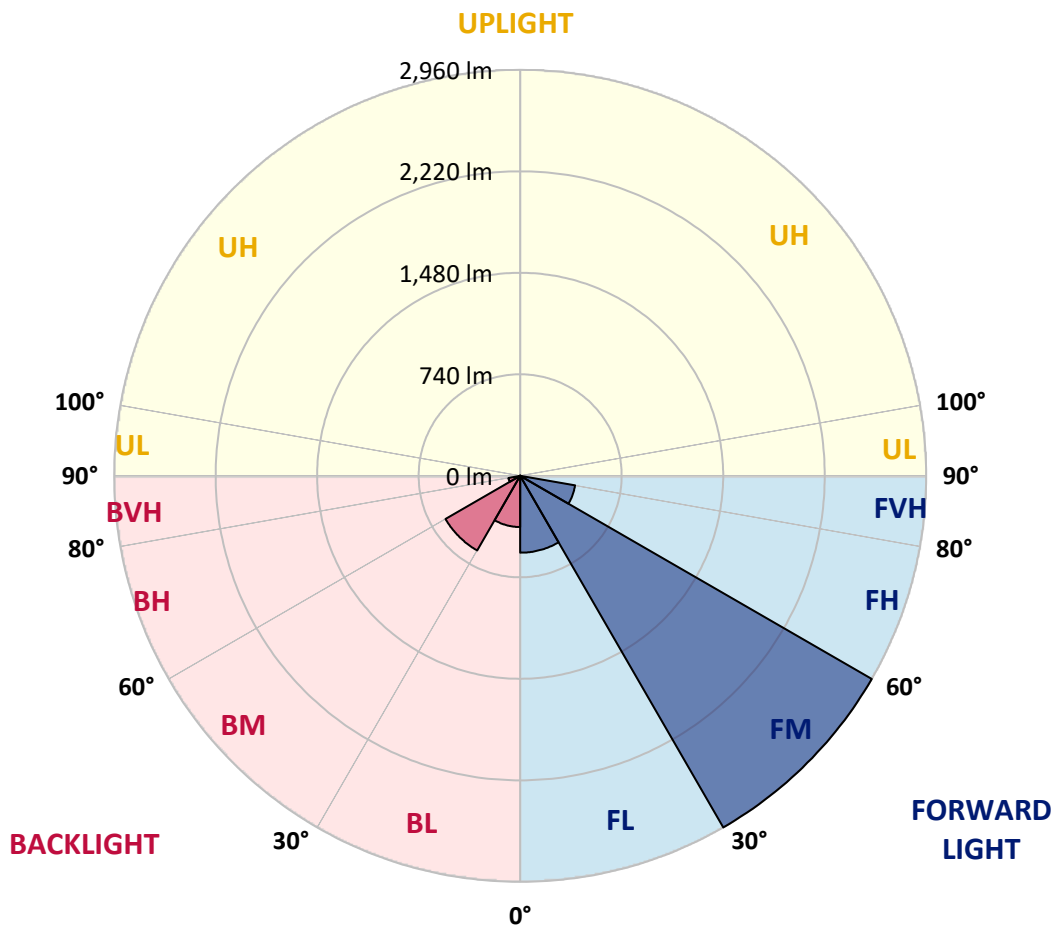


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.5	11.2			
FM (30°-60°)	2959.6	58.9			
FH (60°-80°)	406.7	8.1			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	373.4	7.4	B1/500		
BM (30°-60°)	628.3	12.5	B1/1000		
BH (60°-80°)	86.8	1.7	B0/110		G0/110
BVH (80°-90°)	3.9	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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	976.8	972.2	972.2	964.9	973.1	969.5	972.2	963.1	972.2	958.5	969.5
5°	981.3	982.3	978.6	983.2	983.2	988.7	979.5	987.7	992.3	982.3	977.7
7.5°	1005.1	1007.0	1006.0	1002.4	1009.7	1008.8	1007.9	1001.5	1003.3	999.6	994.1
10°	1051.8	1050.9	1055.4	1046.3	1040.8	1047.2	1049.0	1039.0	1031.6	1028.9	1011.5
12.5°	1119.4	1108.5	1102.1	1092.9	1095.7	1086.5	1103.0	1085.6	1081.9	1065.5	1048.1
15°	1174.3	1172.5	1173.4	1158.8	1142.3	1146.0	1146.0	1136.8	1131.3	1111.2	1086.5
17.5°	1286.8	1248.4	1256.6	1238.3	1224.6	1223.7	1215.5	1217.3	1202.7	1160.6	1123.1
20°	1374.6	1358.2	1345.3	1314.3	1293.2	1299.6	1296.0	1286.8	1282.2	1227.4	1174.3
22.5°	1453.3	1458.8	1437.7	1429.5	1400.2	1403.0	1410.3	1402.1	1367.3	1310.6	1231.9
25°	1563.9	1557.5	1529.2	1519.1	1491.7	1501.7	1530.1	1523.7	1501.7	1399.3	1276.8
27.5°	1694.7	1672.8	1678.3	1632.5	1606.0	1634.4	1668.2	1700.2	1638.0	1503.6	1329.8
30°	1787.1	1764.2	1762.4	1760.6	1754.2	1787.1	1826.4	1855.7	1805.4	1607.8	1417.6
32.5°	1832.8	1838.3	1853.9	1848.4	1904.2	1971.8	2013.0	2055.1	1992.0	1777.9	1533.8
35°	1954.5	1919.7	1954.5	1958.1	2015.7	2159.3	2211.5	2312.1	2296.5	2018.5	1675.5
37.5°	2025.8	2023.1	2027.6	2062.4	2118.2	2295.6	2369.7	2447.4	2418.2	2163.0	1852.0
40°	2143.8	2151.1	2150.2	2176.7	2238.0	2398.0	2428.2	2491.3	2494.1	2363.3	2111.8
42.5°	2333.1	2303.8	2284.6	2312.1	2398.0	2486.7	2547.1	2534.3	2624.8	2606.6	2445.6
45°	2503.2	2520.6	2492.2	2538.0	2569.1	2616.6	2614.8	2642.2	2757.5	2844.3	2697.1
47.5°	2662.3	2673.3	2687.0	2718.1	2785.8	2793.1	2777.6	2765.7	2924.8	3014.5	2891.9
50°	2757.5	2767.5	2831.5	2887.3	3013.5	3030.0	3039.2	3009.0	3116.9	3127.0	3075.7
52.5°	2731.9	2742.8	2832.5	3016.3	3217.5	3368.4	3341.0	3289.7	3283.3	3322.7	3245.8
55°	2505.0	2495.0	2618.4	2904.7	3281.5	3643.7	3647.3	3593.4	3490.0	3463.5	3220.2
56°	2312.1	2272.7	2430.0	2775.8	3199.2	3619.9	3661.1	3603.4	3506.5	3387.6	3062.0
57.5°	1894.1	1931.6	2088.0	2374.3	2914.8	3448.9	3472.7	3458.9	3385.8	3186.4	2694.4
60°	1044.5	1110.3	1248.4	1598.7	2075.2	2646.8	2666.0	2777.6	2791.3	2440.1	1853.9
62.5°	443.6	436.3	579.8	837.8	1181.6	1597.8	1633.4	1747.8	1768.8	1406.6	930.1
65°	180.2	190.2	262.5	421.6	624.7	728.0	778.3	815.8	885.3	580.8	343.0
67.5°	118.9	118.0	154.6	240.5	336.6	324.7	324.7	343.0	317.4	236.9	148.2
70°	85.1	87.8	110.7	166.5	209.4	155.5	149.1	142.7	161.9	156.4	119.8
72.5°	55.8	59.4	74.1	99.7	108.8	85.1	85.1	102.4	133.5	126.2	97.9
75°	36.6	37.5	45.7	57.6	54.0	43.9	48.5	68.6	96.9	93.3	69.5
77.5°	24.7	25.6	31.1	37.5	30.2	24.7	26.5	34.8	47.6	47.6	36.6
80°	9.1	10.1	12.8	11.9	13.7	17.4	19.2	23.8	28.4	28.4	24.7
82.5°	0.0	0.9	2.7	6.4	10.1	13.7	15.5	18.3	21.0	23.8	22.9
85°	0.0	0.9	2.7	4.6	7.3	8.2	9.1	6.4	5.5	5.5	4.6
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9	0.9
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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	959.4	958.5	958.5	955.7	961.2	958.5	960.3	959.4	947.5	956.7	950.2
5°	969.5	975.9	965.8	964.0	956.7	959.4	959.4	950.2	958.5	957.6	955.7
7.5°	995.1	984.1	973.1	962.1	960.3	957.6	947.5	943.8	950.2	942.9	953.9
10°	1006.0	1007.9	991.4	976.8	963.1	943.8	930.1	921.9	911.8	922.8	929.2
12.5°	1056.3	1038.0	1009.7	986.8	940.2	921.0	907.3	903.6	921.0	924.6	918.2
15°	1073.7	1071.0	1034.4	983.2	934.7	911.8	914.6	907.3	909.1	899.9	901.8
17.5°	1109.4	1078.3	1035.3	971.3	933.8	928.3	911.8	882.6	866.1	858.8	865.2
20°	1148.7	1118.5	1056.3	975.9	942.0	927.4	873.4	837.8	803.9	785.6	786.5
22.5°	1183.5	1146.0	1047.2	977.7	949.3	889.0	824.0	753.6	711.5	683.2	684.1
25°	1225.5	1172.5	1050.9	981.3	930.1	827.7	734.4	665.8	615.5	596.3	602.7
27.5°	1249.3	1189.0	1071.0	989.6	879.8	740.8	640.2	576.2	546.9	537.8	536.9
30°	1320.7	1225.5	1095.7	973.1	795.7	647.5	554.2	514.9	486.6	478.3	480.2
32.5°	1426.7	1292.3	1127.7	930.1	709.7	564.3	498.4	469.2	442.7	427.1	425.3
35°	1515.5	1406.6	1161.5	863.4	610.0	500.3	459.1	422.5	382.3	364.9	360.3
37.5°	1684.7	1535.6	1154.2	762.8	514.9	452.7	417.0	372.2	337.5	313.7	311.0
40°	1909.6	1686.5	1118.5	640.2	444.5	410.6	372.2	329.2	286.3	266.1	264.3
42.5°	2183.1	1871.2	1053.6	515.8	374.1	368.6	333.8	284.4	246.0	231.4	232.3
45°	2405.3	2029.5	987.7	414.3	321.9	327.4	297.2	250.6	224.1	212.2	212.2
47.5°	2602.9	2136.5	916.4	342.1	273.5	286.3	259.7	232.3	209.4	200.3	198.5
50°	2793.1	2245.3	845.1	277.1	233.2	246.0	243.3	221.3	203.0	192.1	193.0
52.5°	2912.0	2262.7	754.5	226.8	204.0	218.6	227.7	207.6	187.5	181.1	179.3
55°	2766.6	2038.6	585.3	186.6	172.9	192.1	209.4	186.6	171.0	160.1	159.1
56°	2570.9	1822.8	489.3	171.9	163.7	184.7	203.0	178.3	161.0	154.6	150.0
57.5°	2176.7	1491.7	361.3	152.7	151.8	171.9	193.0	170.1	150.0	144.5	144.5
60°	1357.2	839.6	218.6	128.0	131.7	152.7	173.8	151.8	133.5	133.5	136.3
62.5°	618.3	349.4	132.6	108.8	113.4	131.7	154.6	137.2	127.1	137.2	139.0
65°	210.4	150.9	96.0	86.9	89.6	108.8	132.6	139.0	138.1	144.5	148.2
67.5°	118.0	96.9	80.5	72.3	70.4	80.5	108.8	139.0	133.5	130.8	132.6
70°	99.7	82.3	71.3	64.0	61.3	64.9	84.1	105.2	94.2	91.5	89.6
72.5°	80.5	68.6	62.2	57.6	49.4	42.1	38.4	40.2	44.8	47.6	52.1
75°	56.7	52.1	52.1	46.6	35.7	26.5	21.0	17.4	11.9	8.2	9.1
77.5°	32.0	32.0	32.9	28.4	22.9	17.4	12.8	9.1	4.6	1.8	0.9
80°	21.9	23.8	25.6	22.9	19.2	15.5	11.0	6.4	2.7	0.0	0.0
82.5°	21.9	24.7	26.5	22.9	19.2	14.6	11.0	6.4	2.7	0.9	0.0
85°	4.6	5.5	6.4	7.3	11.0	11.0	8.2	5.5	2.7	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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)