

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: P527693

Luminaire Tested: **GALN-SA2D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7674 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

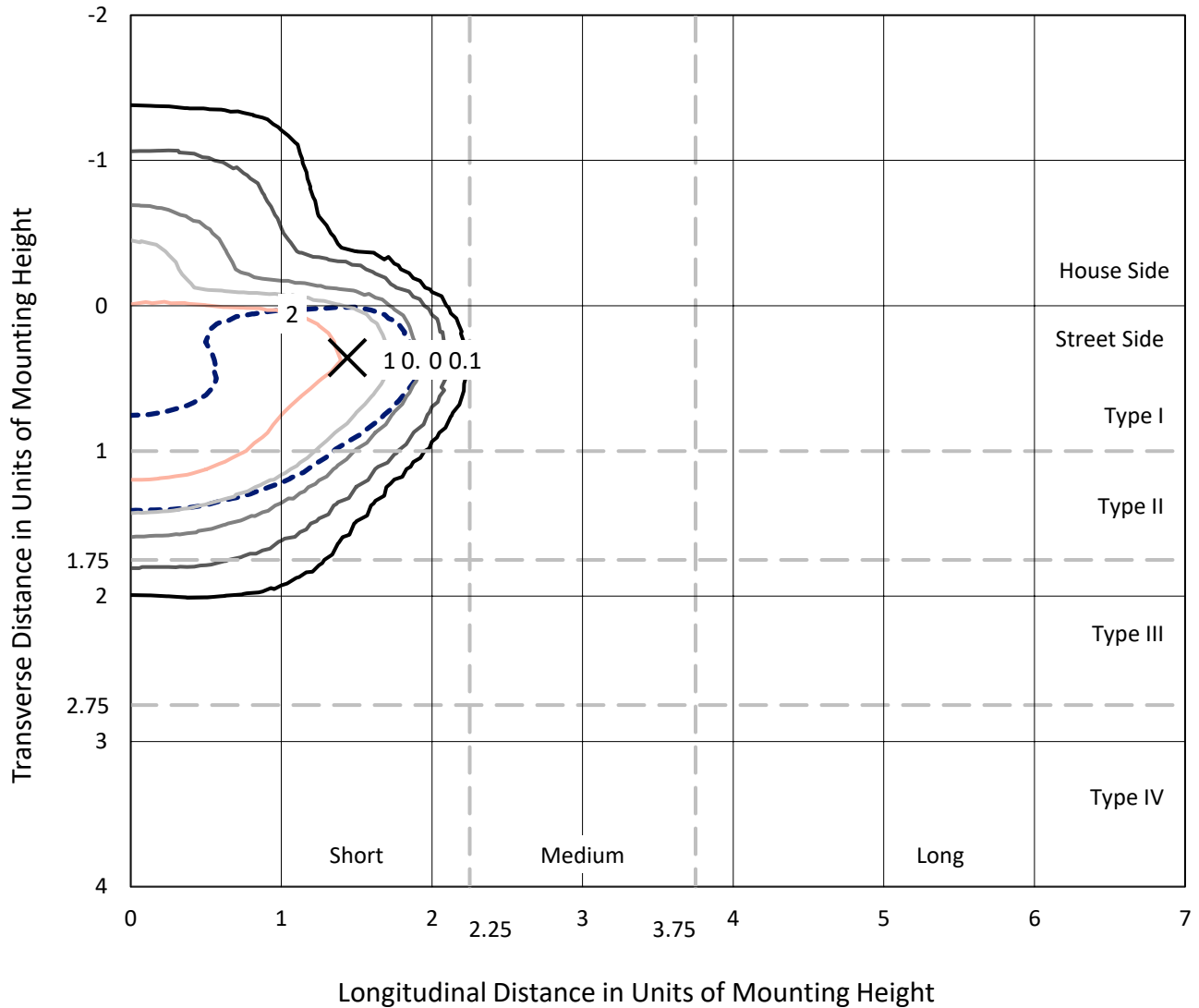
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

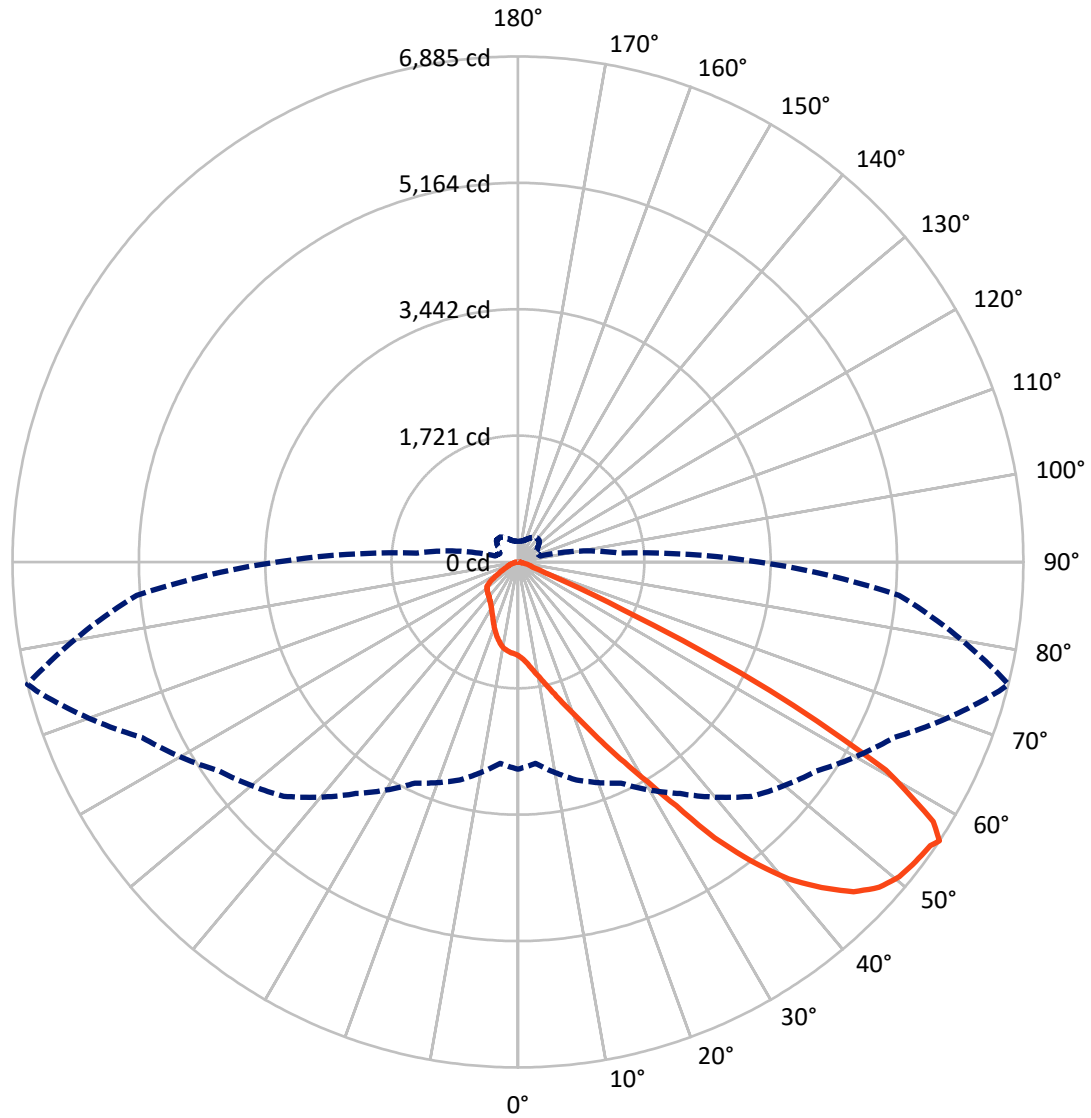
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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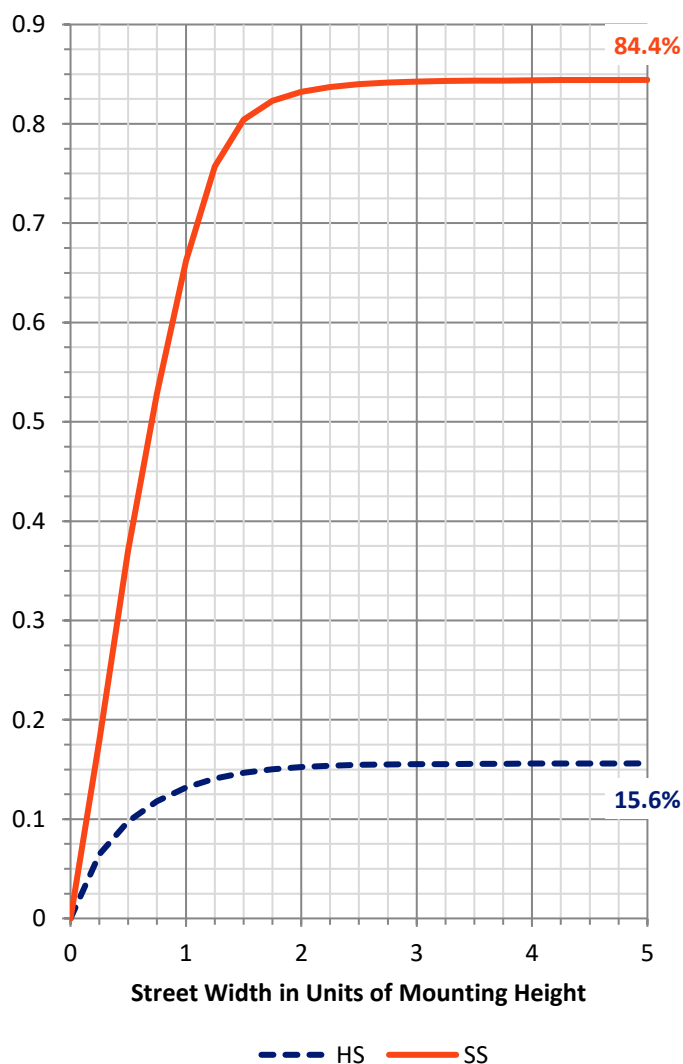
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.5	0.0	1205.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6468.5	0.0	6468.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	7674.0	0.0	7674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.7
10°-20°	413.4	5.4
20°-30°	749.6	9.8
30°-40°	1292.7	16.8
40°-50°	2100.0	27.4
50°-60°	2213.5	28.8
60°-70°	676.3	8.8
70°-80°	86.7	1.1
80°-90°	13.2	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°	7674.0	100.0
0°-180°	7674.0	100.0

Coefficient of Utilization

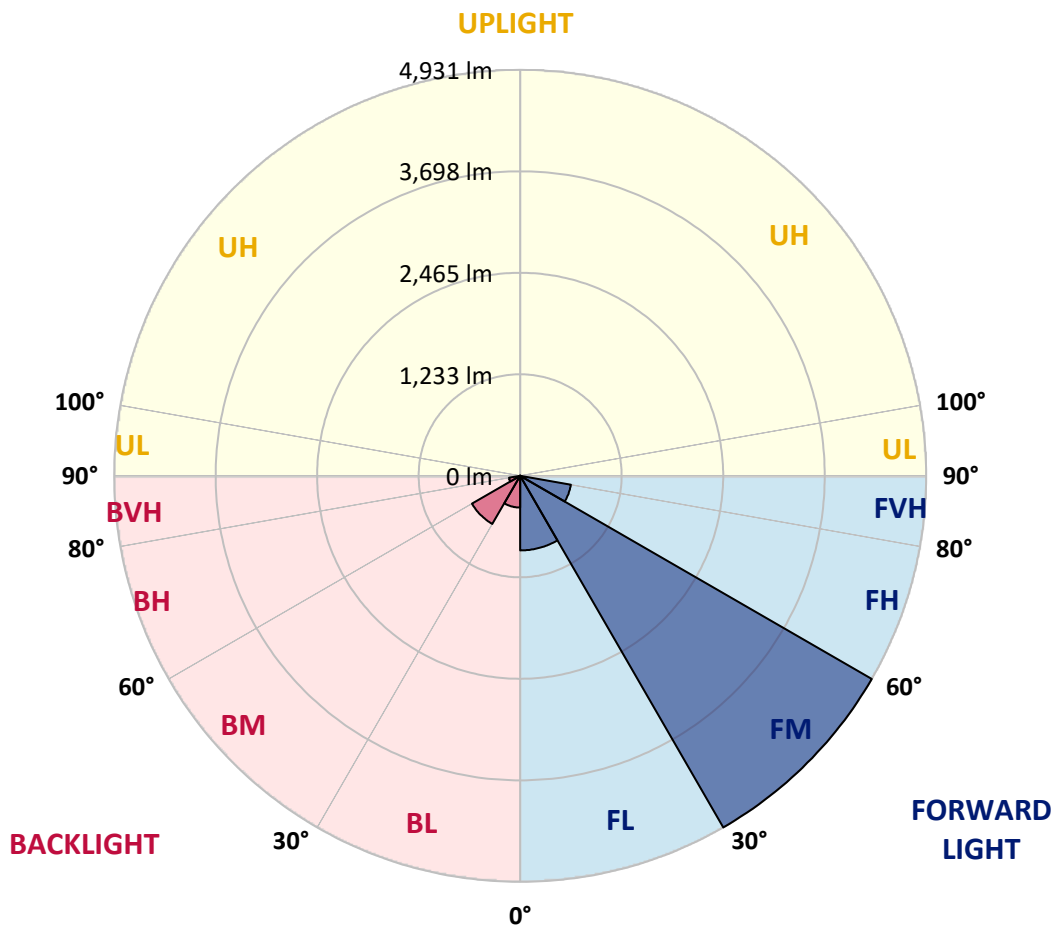


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.0	11.8			
FM (30°-60°)	4930.5	64.2			
FH (60°-80°)	625.5	8.2			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	385.7	5.0	B1/500		
BM (30°-60°)	675.6	8.8	B1/1000		
BH (60°-80°)	137.5	1.8	B1/500		G1/500
BVH (80°-90°)	6.7	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3
2.5°	1471.1	1437.2	1438.6	1435.8	1431.5	1416.0	1369.3	1362.2	1331.1	1322.6	1294.3
5°	1648.0	1618.3	1635.2	1609.8	1585.7	1571.6	1495.2	1459.8	1410.3	1391.9	1352.3
7.5°	1758.3	1744.2	1738.5	1739.9	1717.3	1681.9	1648.0	1570.2	1503.7	1489.5	1406.1
10°	1812.1	1803.6	1812.1	1807.8	1817.7	1822.0	1762.5	1715.9	1618.3	1594.2	1464.1
12.5°	1824.8	1841.8	1848.8	1867.2	1891.3	1932.3	1928.0	1864.4	1734.3	1718.7	1553.2
15°	1855.9	1870.1	1863.0	1892.7	1937.9	2007.3	2044.0	2034.1	1894.1	1865.8	1656.5
17.5°	1884.2	1858.7	1882.8	1942.2	1987.5	2093.6	2182.7	2223.7	2068.1	2035.6	1751.2
20°	1922.4	1915.3	1911.1	1940.8	2021.4	2162.9	2339.7	2414.7	2263.3	2229.3	1887.0
22.5°	2038.4	2039.8	2037.0	1993.1	2051.1	2211.0	2476.9	2662.2	2496.7	2468.4	2041.2
25°	2191.2	2172.8	2158.6	2123.3	2116.2	2254.8	2615.5	2964.9	2776.8	2757.0	2208.1
27.5°	2352.4	2352.4	2310.0	2277.4	2232.2	2363.7	2742.8	3259.1	3114.9	3088.0	2353.8
30°	2527.8	2537.7	2532.1	2462.8	2434.5	2482.6	2873.0	3635.4	3502.5	3468.5	2594.3
32.5°	2786.7	2765.5	2789.5	2731.5	2648.1	2690.5	3078.1	3972.1	4006.0	3957.9	2909.8
35°	3129.0	3116.3	3100.7	3005.9	2906.9	2940.9	3368.1	4386.6	4638.3	4614.3	3228.0
37.5°	3436.0	3428.9	3416.2	3351.1	3236.5	3277.5	3697.7	4818.0	5255.1	5175.9	3677.9
40°	3758.5	3796.7	3755.7	3697.7	3593.0	3683.5	4085.3	5074.0	5774.2	5678.0	4021.6
42.5°	4195.6	4165.9	4184.3	4078.2	4021.6	4120.6	4474.3	5330.1	6177.4	6062.8	4386.6
45°	4661.0	4662.4	4612.9	4578.9	4431.8	4539.3	4713.3	5471.5	6498.5	6409.4	4662.4
47.5°	4959.5	4958.0	5011.8	5065.5	4914.2	4808.1	4876.0	5605.9	6664.0	6623.0	4762.8
50°	4912.8	4926.9	4996.2	5197.1	5276.3	5133.4	5028.8	5566.3	6739.0	6734.7	4849.1
52.5°	4273.4	4320.1	4436.1	4726.0	5125.0	5301.8	5188.6	5639.9	6775.7	6782.8	4977.8
55°	3253.5	3279.0	3499.6	3851.9	4293.2	4898.6	5125.0	5697.9	6804.0	6816.8	5133.4
56°	2822.0	2754.2	3072.4	3322.8	3850.4	4512.5	4963.7	5652.6	6787.1	6884.7	5211.2
57.5°	2130.3	2085.1	2342.5	2655.1	3163.0	3861.8	4462.9	5439.0	6672.5	6671.1	5099.5
60°	1295.7	1250.5	1448.5	1632.4	1916.7	2377.9	3015.8	4331.4	5641.3	5760.1	4129.1
62.5°	770.9	799.2	994.4	1106.2	1198.1	1246.2	1560.3	2574.5	3764.1	3849.0	2561.8
65°	513.5	523.4	670.5	854.4	895.4	712.9	635.1	1042.5	1632.4	1580.1	1056.7
67.5°	316.9	339.5	449.8	642.2	711.5	520.6	301.3	389.0	449.8	449.8	305.5
70°	192.4	203.7	299.9	437.1	488.0	335.3	219.3	219.3	216.4	212.2	182.5
72.5°	91.9	99.0	152.8	224.9	229.2	176.8	169.7	185.3	181.1	179.6	151.4
75°	39.6	42.4	53.8	70.7	80.6	75.0	103.3	133.0	137.2	133.0	108.9
77.5°	12.7	14.1	19.8	25.5	26.9	32.5	43.9	55.2	63.7	59.4	53.8
80°	1.4	2.8	5.7	12.7	19.8	25.5	32.5	36.8	41.0	41.0	38.2
82.5°	1.4	1.4	5.7	11.3	18.4	24.0	31.1	35.4	41.0	42.4	39.6
85°	0.0	1.4	4.2	9.9	15.6	15.6	14.1	14.1	9.9	9.9	9.9
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3
2.5°	1288.7	1285.8	1247.6	1223.6	1210.9	1185.4	1169.8	1158.5	1150.0	1140.1	1141.6
5°	1305.6	1295.7	1232.1	1188.2	1135.9	1107.6	1083.6	1063.8	1051.0	1048.2	1042.5
7.5°	1353.7	1301.4	1205.2	1126.0	1059.5	1031.2	1010.0	997.3	1002.9	990.2	1000.1
10°	1390.5	1312.7	1172.7	1058.1	991.6	970.4	959.1	969.0	983.1	977.5	970.4
12.5°	1435.8	1324.0	1120.3	993.0	930.8	915.2	935.0	953.4	981.7	993.0	978.9
15°	1486.7	1336.8	1053.8	918.1	878.4	891.2	925.1	957.7	985.9	1000.1	1008.6
17.5°	1548.9	1332.5	988.8	858.6	828.9	865.7	906.7	936.4	978.9	1000.1	994.4
20°	1606.9	1318.4	916.6	799.2	800.6	834.6	868.5	916.6	939.3	967.6	957.7
22.5°	1662.1	1292.9	841.7	758.2	758.2	810.5	827.5	858.6	878.4	892.6	891.2
25°	1739.9	1244.8	779.4	718.6	735.6	769.5	783.7	793.6	785.1	796.4	797.8
27.5°	1795.1	1195.3	728.5	683.2	714.4	739.8	735.6	729.9	710.1	694.5	704.5
30°	1854.5	1137.3	684.6	659.2	676.2	698.8	681.8	664.8	633.7	608.3	609.7
32.5°	1939.4	1110.4	646.5	630.9	653.5	656.4	638.0	612.5	581.4	557.3	555.9
35°	2097.8	1093.5	613.9	612.5	616.7	618.2	599.8	568.7	555.9	536.1	543.2
37.5°	2256.2	1085.0	591.3	585.6	584.2	585.6	564.4	534.7	558.8	557.3	560.2
40°	2458.5	1123.2	558.8	551.7	553.1	553.1	526.2	517.7	560.2	564.4	565.8
42.5°	2663.6	1171.3	537.5	514.9	520.6	520.6	506.4	496.5	526.2	497.9	493.7
45°	2841.9	1242.0	514.9	478.1	492.3	499.3	495.1	478.1	459.7	411.6	411.6
47.5°	2899.9	1304.2	488.0	442.8	454.1	485.2	472.5	437.1	404.6	365.0	362.1
50°	3001.7	1372.1	466.8	401.7	425.8	464.0	451.2	415.9	379.1	350.8	352.2
52.5°	3106.4	1449.9	427.2	353.6	383.3	447.0	447.0	407.4	350.8	331.0	328.2
55°	3263.4	1447.1	356.5	290.0	342.3	421.5	428.6	365.0	314.0	298.5	298.5
56°	3286.0	1382.0	321.1	271.6	323.9	414.5	415.9	353.6	299.9	282.9	282.9
57.5°	3116.3	1247.6	281.5	249.0	301.3	401.7	403.1	343.7	288.6	264.5	261.7
60°	2397.7	844.5	234.8	222.1	273.0	362.1	369.2	312.6	253.2	234.8	233.4
62.5°	1353.7	468.2	206.5	200.9	234.8	308.4	329.6	273.0	215.0	205.1	207.9
65°	618.2	257.5	174.0	162.7	189.6	237.6	265.9	224.9	176.8	165.5	165.5
67.5°	226.3	175.4	148.5	128.7	133.0	154.2	172.6	145.7	117.4	100.4	104.7
70°	161.3	147.1	130.1	111.8	103.3	100.4	99.0	82.0	58.0	45.3	48.1
72.5°	130.1	121.7	108.9	94.8	80.6	67.9	58.0	42.4	26.9	18.4	17.0
75°	93.4	89.1	79.2	67.9	56.6	48.1	39.6	26.9	14.1	7.1	7.1
77.5°	48.1	48.1	46.7	42.4	35.4	28.3	22.6	15.6	8.5	2.8	2.8
80°	36.8	39.6	41.0	36.8	32.5	25.5	18.4	11.3	5.7	1.4	1.4
82.5°	35.4	41.0	43.9	38.2	32.5	24.0	18.4	11.3	5.7	1.4	1.4
85°	8.5	8.5	12.7	14.1	18.4	19.8	15.6	9.9	4.2	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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)