

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: P526452

Luminaire Tested: **GALN-SA1B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3695 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

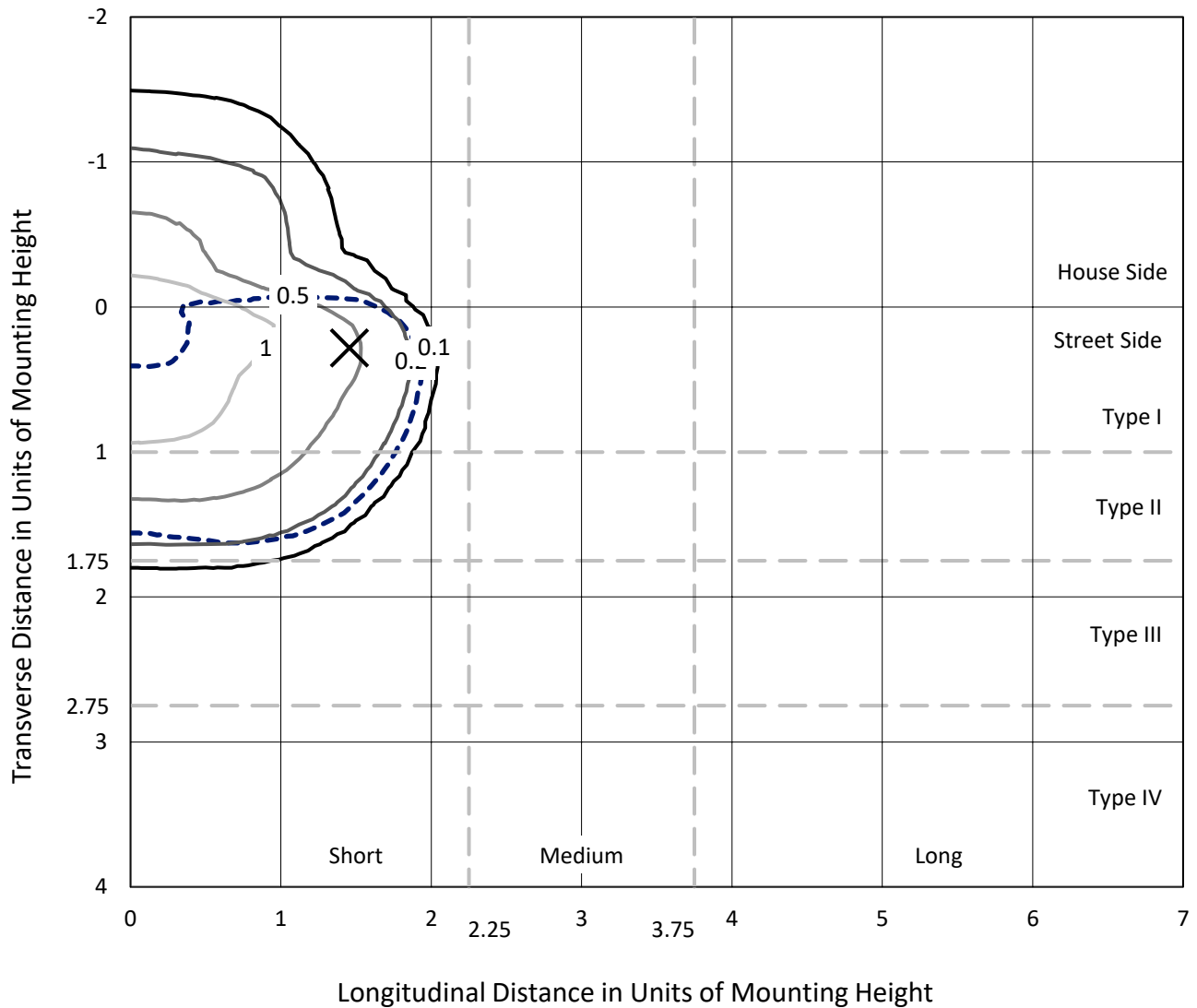
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

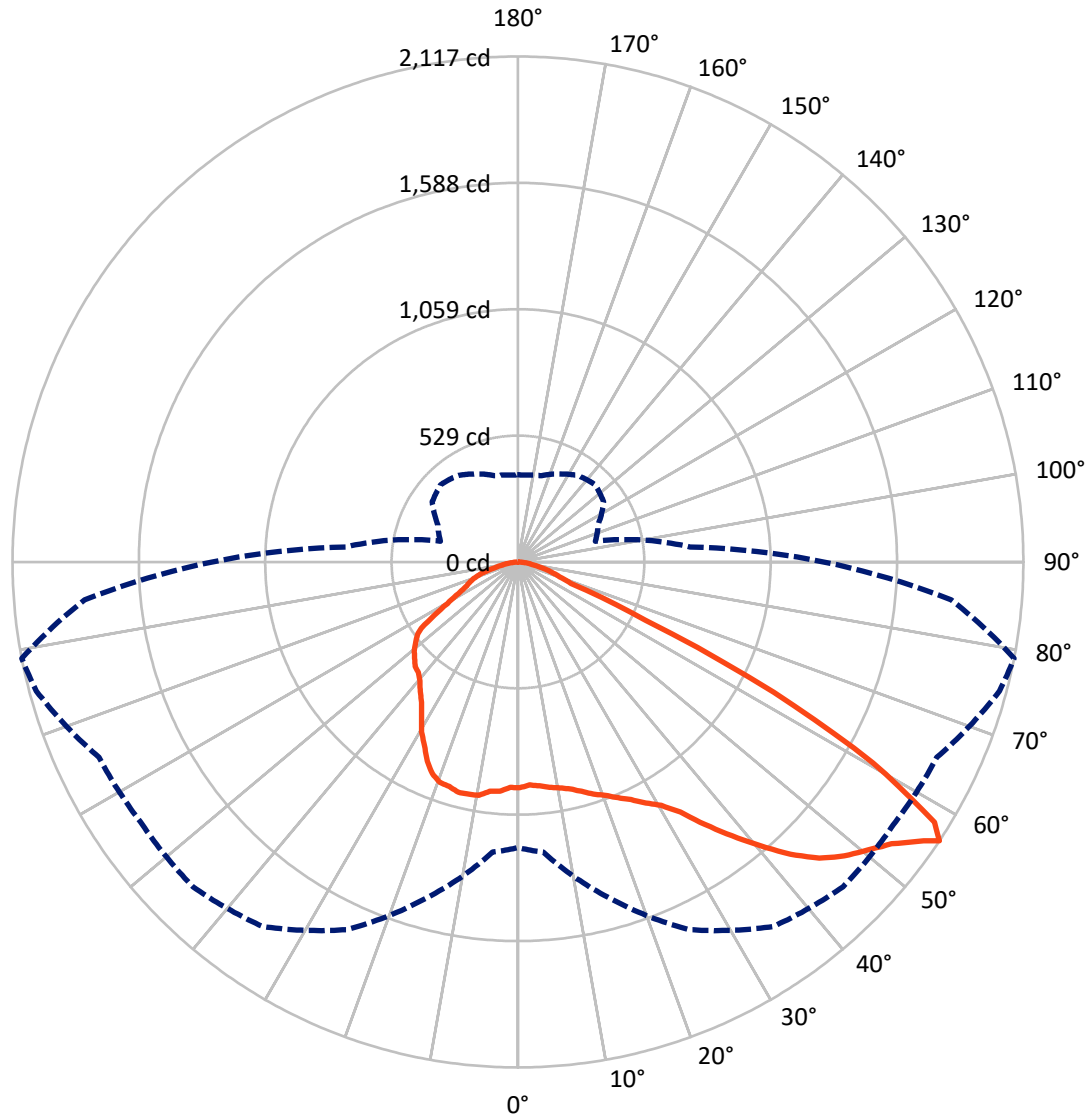
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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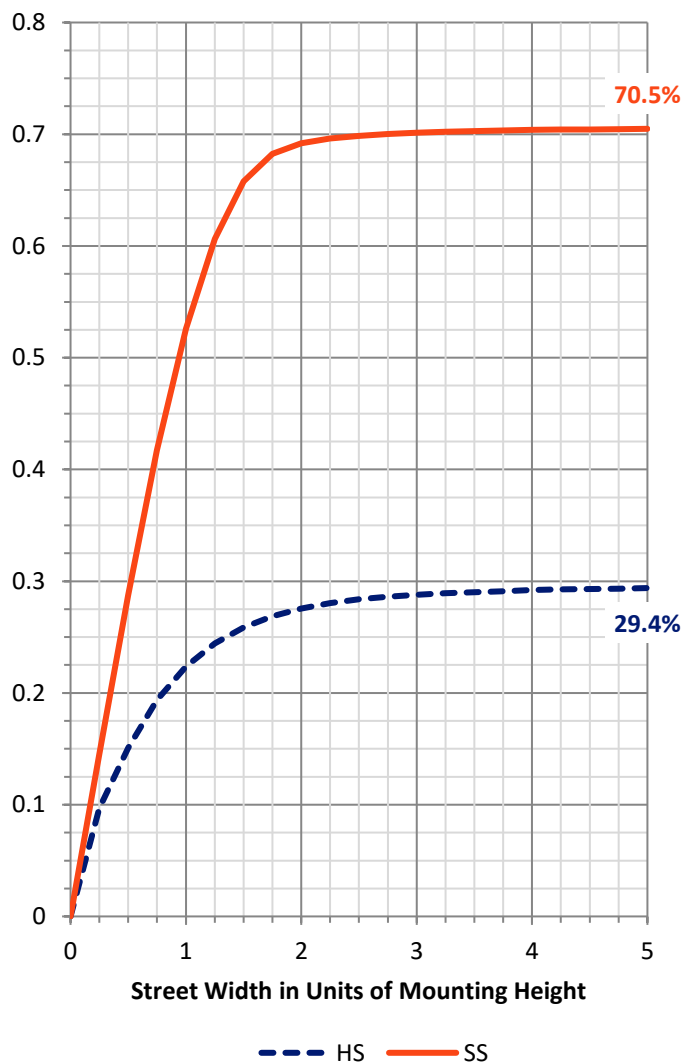
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1091.2	0.0	1091.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	2603.8	0.0	2603.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	3695.0	0.0	3695.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	2.3
10°-20°	235.2	6.4
20°-30°	402.4	10.9
30°-40°	616.8	16.7
40°-50°	833.6	22.6
50°-60°	957.4	25.9
60°-70°	436.4	11.8
70°-80°	107.6	2.9
80°-90°	19.6	0.5
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°	3695.0	100.0
0°-180°	3695.0	100.0



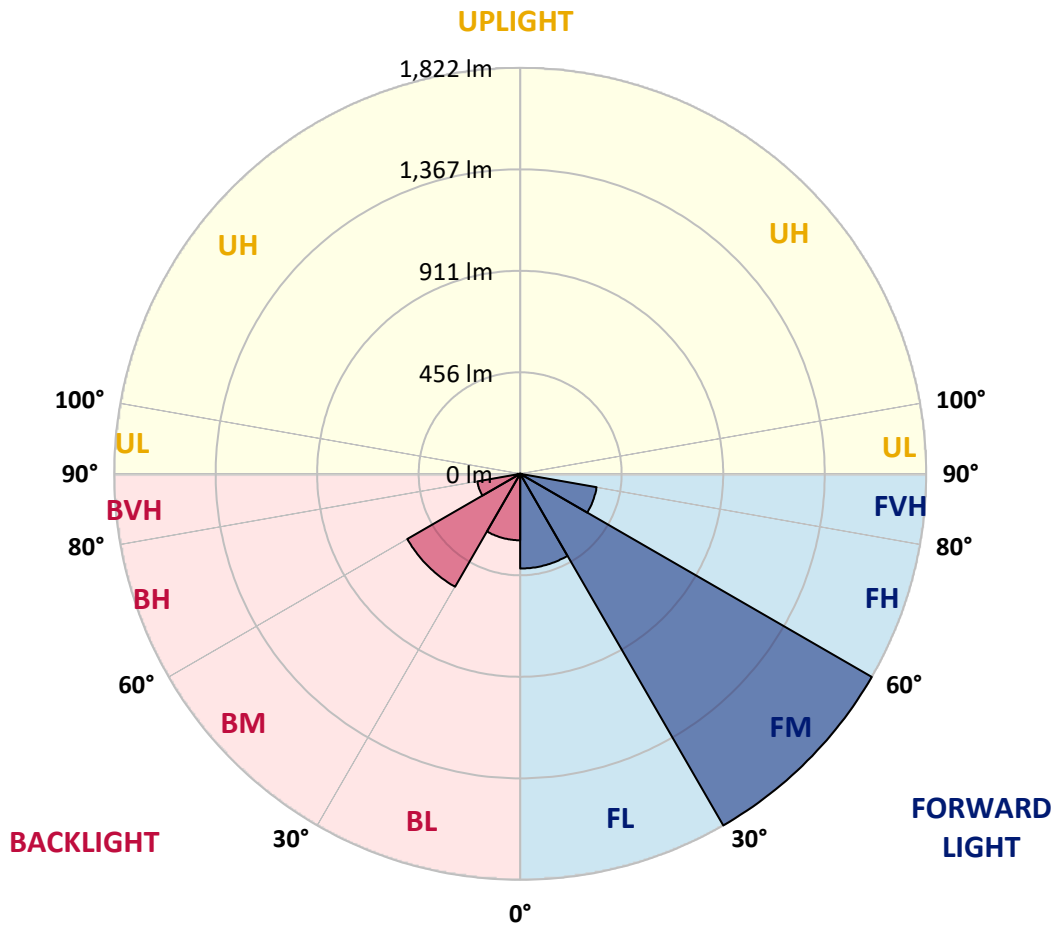
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.1	11.5			
FM (30°-60°)	1822.5	49.3			
FH (60°-80°)	348.4	9.4			G0/660
FVH (80°-90°)	7.8	0.2			G0/10
BL (0°-30°)	298.5	8.1	B1/500		
BM (30°-60°)	585.3	15.8	B1/1000		
BH (60°-80°)	195.7	5.3	B1/500		G1/500
BVH (80°-90°)	11.7	0.3			G1/100
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°	79°	85°
0°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	899.4	897.1	902.6	906.7	911.8	918.2	921.5	923.3	939.4	935.3	947.7
5°	880.0	874.1	878.2	881.4	890.2	898.0	906.7	920.5	935.3	941.7	956.9
7.5°	863.0	859.8	858.9	861.2	873.1	883.3	898.5	918.7	942.6	953.2	962.0
10°	834.9	830.3	837.2	852.4	855.7	876.8	894.3	923.3	944.0	962.4	988.2
12.5°	822.5	817.9	819.3	828.0	850.6	870.8	891.6	924.2	968.0	975.3	1009.8
15°	842.3	837.7	839.1	836.8	858.4	869.0	901.7	942.6	984.5	997.0	1033.8
17.5°	887.4	887.9	881.9	876.8	871.8	894.3	916.9	953.7	991.0	1022.3	1049.9
20°	973.5	958.3	946.3	917.8	910.0	919.6	948.2	983.6	1017.2	1043.0	1074.3
22.5°	1039.8	1041.1	1024.1	977.2	960.1	964.3	988.7	1017.7	1054.5	1072.9	1108.8
25°	1136.0	1126.3	1107.9	1070.6	1032.4	1035.6	1053.6	1079.8	1089.9	1102.8	1141.9
27.5°	1223.9	1226.6	1190.3	1155.3	1107.9	1098.7	1130.9	1135.5	1118.5	1142.9	1156.2
30°	1313.2	1310.9	1286.9	1246.0	1199.5	1201.3	1215.6	1193.0	1169.6	1182.9	1192.1
32.5°	1405.7	1379.4	1378.5	1341.7	1306.3	1289.2	1271.7	1282.8	1246.4	1249.2	1240.4
35°	1479.8	1483.5	1462.3	1436.1	1418.6	1388.6	1340.8	1360.6	1353.7	1350.4	1312.7
37.5°	1533.6	1519.4	1530.0	1521.2	1504.6	1467.4	1417.6	1436.5	1439.7	1455.4	1411.7
40°	1577.8	1571.8	1599.9	1604.5	1593.0	1512.5	1423.2	1479.3	1527.7	1561.7	1509.7
42.5°	1599.0	1611.9	1641.3	1676.8	1651.0	1564.9	1451.7	1512.0	1619.7	1673.6	1602.7
45°	1627.5	1611.0	1654.7	1719.6	1720.0	1609.1	1479.3	1556.2	1691.5	1769.8	1666.2
47.5°	1598.5	1606.8	1651.9	1734.3	1755.5	1655.6	1553.9	1618.8	1770.7	1840.2	1725.1
50°	1533.6	1550.2	1632.6	1718.2	1782.2	1704.9	1639.5	1686.4	1843.9	1896.8	1734.8
52.5°	1466.0	1475.2	1604.1	1730.6	1794.2	1768.4	1754.1	1779.9	1933.2	1960.8	1746.7
55°	1281.9	1325.6	1509.7	1725.1	1852.6	1883.0	1871.9	1909.7	2034.4	2062.0	1812.1
56°	1196.7	1219.7	1453.1	1699.3	1864.1	1924.9	1919.3	1936.4	2088.3	2117.3	1822.2
57.5°	1039.3	1041.1	1239.1	1585.2	1820.8	1937.3	1931.8	1945.1	2077.7	2057.9	1733.4
60°	650.4	678.9	843.2	1219.3	1548.4	1797.4	1828.7	1721.4	1751.8	1709.9	1348.6
62.5°	336.9	332.8	441.9	713.0	1027.8	1286.9	1315.9	1310.9	1263.9	1202.7	881.0
65°	168.0	168.9	231.1	353.0	526.6	673.8	754.9	763.6	638.9	587.8	417.9
67.5°	122.0	126.6	166.2	215.9	248.1	277.5	340.1	333.7	252.7	240.3	222.8
70°	94.8	99.0	134.9	164.8	149.6	149.6	162.9	168.5	180.0	185.0	191.0
72.5°	69.0	72.3	103.1	113.7	98.0	105.4	122.0	134.9	146.8	148.7	155.6
75°	47.4	50.2	67.7	62.6	58.9	72.7	89.3	101.3	110.0	114.6	118.8
77.5°	30.8	31.8	38.7	32.7	37.7	46.9	58.0	68.1	76.9	80.5	81.5
80°	13.8	15.2	16.6	20.7	26.2	33.6	41.4	49.7	55.2	56.6	59.4
82.5°	7.8	7.8	10.1	14.7	19.3	24.4	29.9	35.9	42.3	43.7	43.3
85°	4.1	4.1	6.0	8.7	12.0	14.3	13.8	14.3	15.2	17.5	17.0
87.5°	1.4	1.4	1.8	1.8	2.3	2.8	2.3	3.2	4.1	4.1	4.1
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°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	944.0	948.2	942.6	954.6	954.6	952.3	940.8	944.5	947.2	947.2	949.5
5°	962.0	960.6	964.3	950.0	941.3	938.0	919.2	910.0	902.1	901.7	894.8
7.5°	972.1	968.4	967.0	956.5	917.8	894.3	853.8	830.3	825.3	807.3	814.2
10°	988.2	995.1	988.2	930.7	876.8	823.0	783.4	747.0	732.8	721.3	714.3
12.5°	1021.3	1018.1	978.1	900.3	824.8	760.8	701.9	663.7	649.4	639.3	638.4
15°	1049.4	1033.3	972.1	852.4	743.8	675.7	627.4	600.2	593.8	594.7	598.8
17.5°	1059.1	1048.0	940.8	802.7	683.5	603.4	580.9	576.7	582.7	589.6	591.5
20°	1074.3	1056.8	927.9	735.1	608.9	558.3	556.9	571.7	582.7	592.8	594.2
22.5°	1106.0	1061.9	886.0	671.1	557.9	545.0	558.3	570.7	587.8	596.1	588.7
25°	1115.2	1050.8	827.1	594.2	525.6	536.7	550.9	568.0	579.9	584.5	587.8
27.5°	1123.1	1033.8	747.5	543.1	515.5	536.2	550.9	565.2	571.7	575.8	579.5
30°	1145.2	1028.7	678.4	509.1	509.1	527.0	545.9	549.6	558.3	563.4	569.8
32.5°	1156.2	993.7	607.6	487.4	502.6	531.6	533.0	539.9	540.4	544.5	537.6
35°	1185.2	968.9	541.7	471.8	505.4	527.0	533.9	529.8	507.2	496.2	498.5
37.5°	1206.4	956.5	494.3	469.9	505.8	532.1	535.8	504.5	481.0	462.6	467.2
40°	1263.5	925.6	458.4	466.7	510.0	537.6	527.5	493.4	451.1	432.2	429.0
42.5°	1307.2	903.5	435.9	463.0	513.2	545.4	523.3	471.3	428.1	410.6	415.2
45°	1357.8	898.5	423.9	464.0	518.7	549.6	518.3	454.3	408.3	401.4	400.0
47.5°	1375.8	862.1	411.0	456.1	517.3	548.2	501.2	441.4	400.9	401.8	405.5
50°	1345.8	824.8	401.4	440.0	508.1	535.8	474.5	424.4	396.8	408.3	414.7
52.5°	1307.6	786.6	381.6	418.4	489.3	516.4	462.1	423.5	392.6	388.9	390.3
55°	1319.1	755.3	354.0	388.9	458.9	480.5	448.3	414.7	382.5	368.7	373.3
56°	1281.9	723.1	336.0	370.5	438.2	457.5	441.4	406.9	374.2	365.0	365.0
57.5°	1176.5	614.9	312.5	341.1	394.5	417.5	428.1	402.3	365.0	348.9	349.3
60°	867.6	437.3	280.3	300.6	326.8	345.2	394.5	389.4	342.0	330.9	326.8
62.5°	534.8	319.4	257.3	265.1	278.5	293.7	344.3	352.6	317.6	305.6	302.9
65°	299.6	244.4	239.8	243.0	249.5	257.3	285.8	304.2	280.3	261.9	261.0
67.5°	219.1	218.6	222.3	225.1	227.8	227.8	234.7	242.1	238.9	224.2	222.8
70°	194.7	196.1	198.8	199.3	200.2	197.0	191.5	189.2	192.9	183.6	181.8
72.5°	160.6	165.2	168.5	168.9	163.9	159.7	152.4	144.5	141.8	139.9	139.5
75°	123.4	126.6	128.0	127.5	125.7	119.7	110.9	103.1	98.0	92.5	95.3
77.5°	83.3	87.9	90.2	90.2	87.5	78.2	74.1	68.1	63.1	57.1	58.0
80°	58.5	61.7	65.4	64.9	60.3	55.7	49.7	44.2	40.0	35.4	35.0
82.5°	43.7	45.6	47.4	46.5	43.3	38.7	34.5	29.5	24.9	21.6	21.6
85°	15.6	17.0	20.7	21.6	23.5	23.5	19.8	16.6	13.3	11.0	11.0
87.5°	4.6	4.6	5.1	5.1	4.6	5.1	4.1	4.6	5.1	3.2	3.2
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)