

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: P646745

Luminaire Tested: **GALN-SA1C-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5601.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

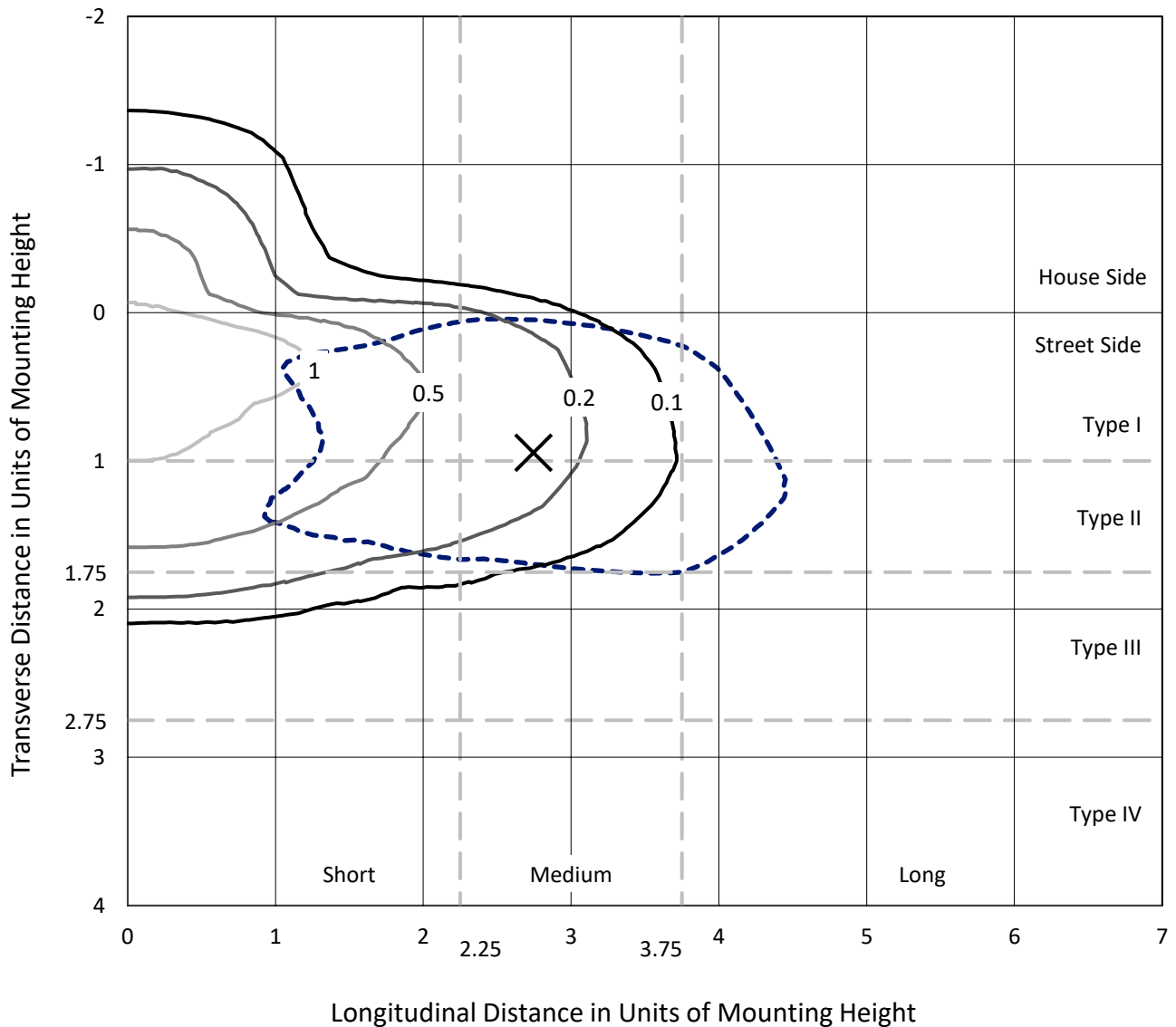
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646745  
 CATALOG NUMBER: GALN-SA1C-835-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

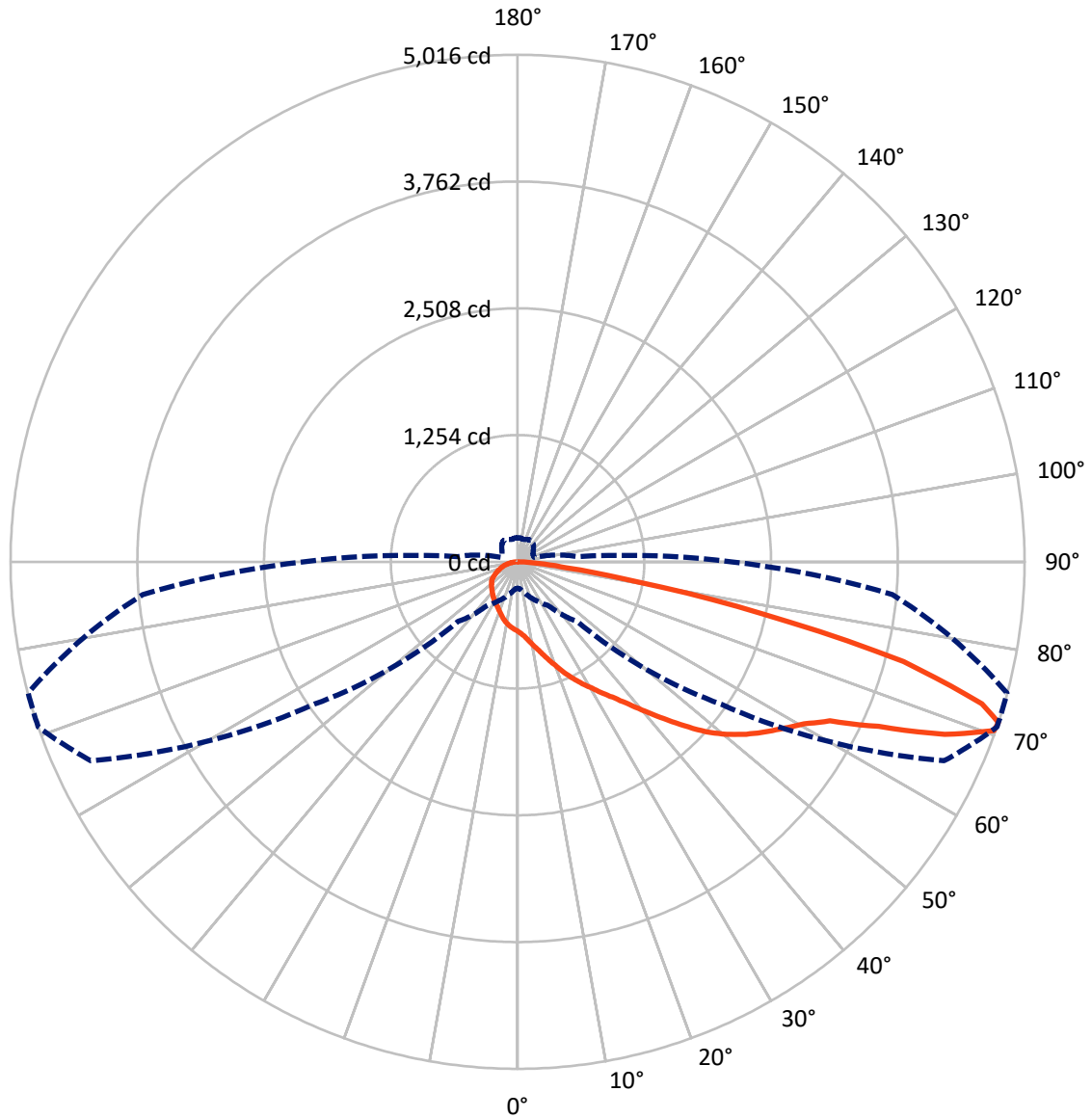
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P646745  
CATALOG NUMBER: GALN-SA1C-835-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P646745  
 CATALOG NUMBER: GALN-SA1C-835-U-T2

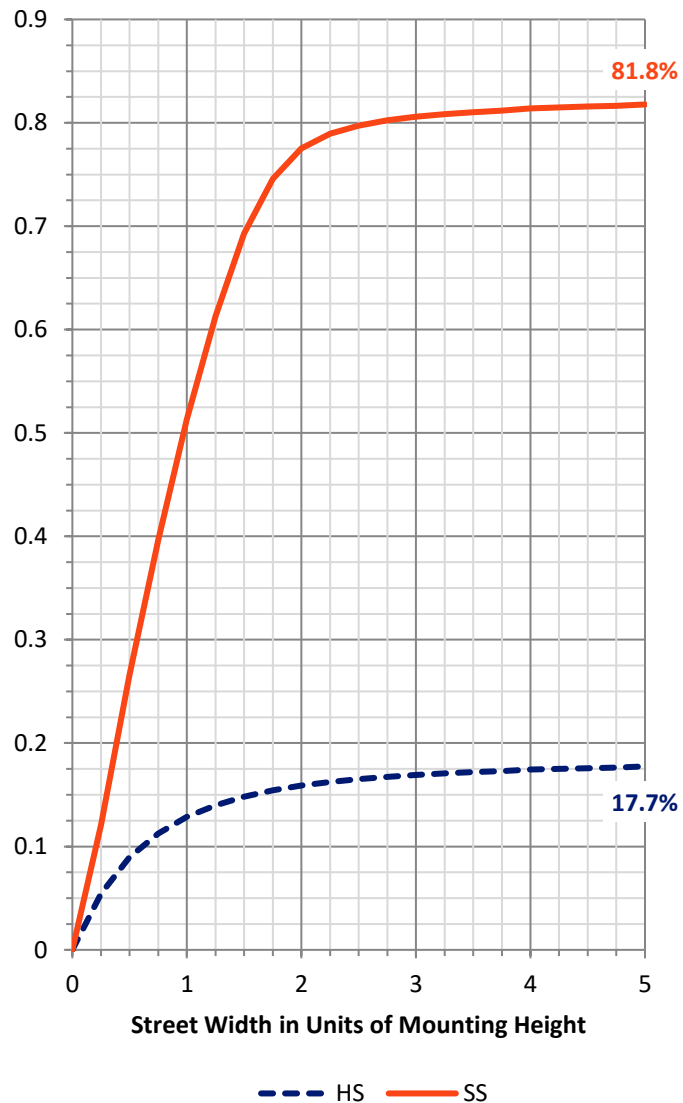
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1007.4	0.0	1007.4
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	4594.2	0.0	4594.2
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	5601.6	0.0	5601.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.2
10°-20°	224.3	4.0
20°-30°	391.9	7.0
30°-40°	582.9	10.4
40°-50°	858.9	15.3
50°-60°	1202.4	21.5
60°-70°	1344.9	24.0
70°-80°	821.5	14.7
80°-90°	105.7	1.9
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°	5601.6	100.0
0°-180°	5601.6	100.0

**Coefficient of Utilization**

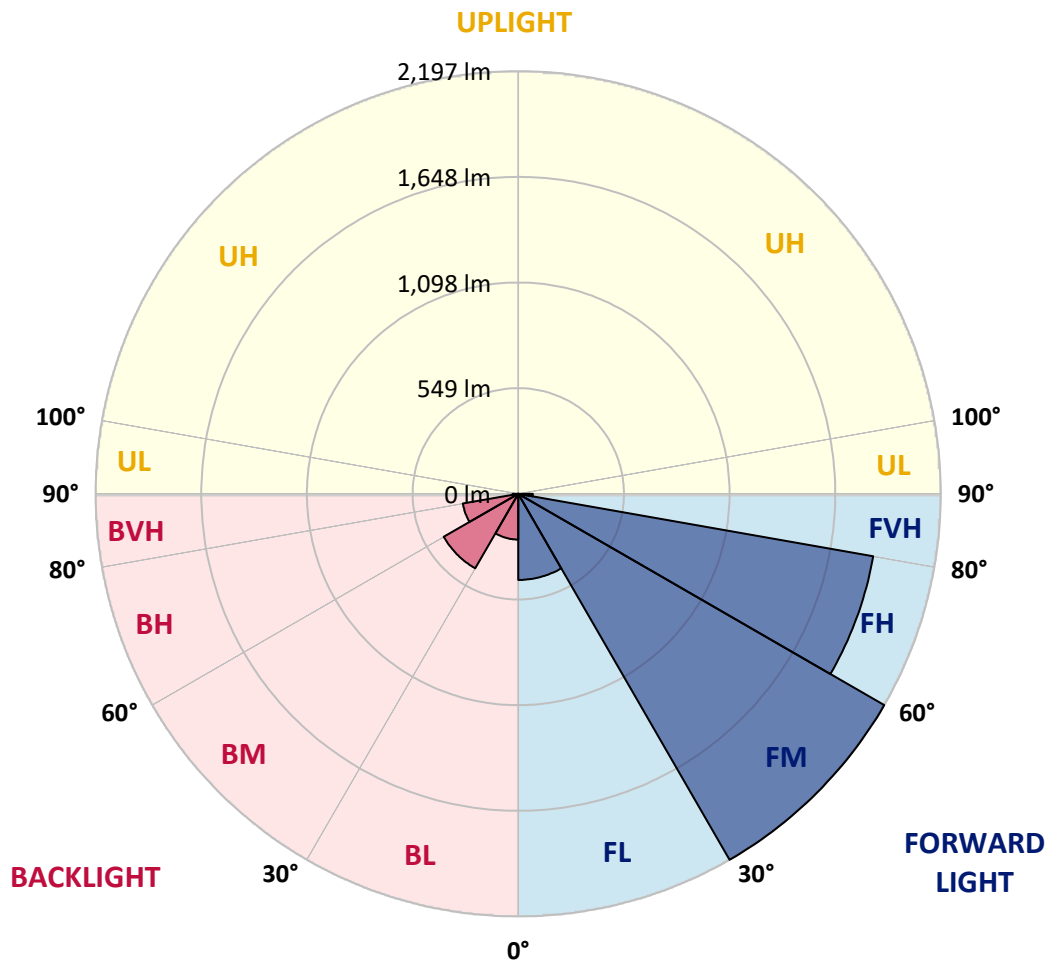


REPORT NUMBER: P646745  
 CATALOG NUMBER: GALN-SA1C-835-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.6	8.0			
FM (30°-60°)	2196.8	39.2			
FH (60°-80°)	1873.7	33.4			G2/5000
FVH (80°-90°)	76.0	1.4			G1/100
BL (0°-30°)	237.7	4.2	B1/500		
BM (30°-60°)	447.4	8.0	B1/1000		
BH (60°-80°)	292.7	5.2	B1/500		G1/500
BVH (80°-90°)	29.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





REPORT NUMBER: P646745  
 CATALOG NUMBER: GALN-SA1C-835-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5
2.5°	763.2	759.5	759.8	754.6	747.8	740.4	730.0	720.8	713.3	709.0	696.4
5°	845.7	842.0	837.4	826.1	821.1	803.0	779.9	758.9	742.9	734.0	708.7
7.5°	912.5	911.6	910.4	903.9	891.3	866.1	846.3	810.0	786.3	769.4	726.3
10°	953.8	955.3	956.3	957.5	952.3	939.1	912.0	866.1	835.9	814.3	749.1
12.5°	974.8	976.2	981.5	992.9	1000.0	998.4	976.2	931.3	889.7	861.5	773.4
15°	987.7	990.1	999.3	1014.5	1038.2	1053.2	1042.5	1000.9	955.3	921.7	802.3
17.5°	1001.8	1004.6	1014.8	1036.3	1067.4	1100.0	1111.7	1076.0	1026.4	986.4	834.7
20°	1009.8	1013.5	1028.0	1056.3	1092.7	1140.0	1178.9	1160.1	1105.9	1061.5	871.9
22.5°	1022.8	1025.8	1038.2	1068.3	1111.7	1171.1	1246.0	1242.0	1194.2	1137.0	912.8
25°	1057.8	1062.8	1069.0	1087.1	1129.0	1202.8	1301.7	1329.4	1279.8	1215.8	950.4
27.5°	1124.1	1128.1	1127.8	1130.2	1153.9	1230.2	1350.0	1415.9	1364.8	1295.6	986.7
30°	1199.5	1201.0	1202.2	1196.7	1201.9	1258.3	1394.4	1501.5	1450.4	1377.5	1018.4
32.5°	1291.2	1294.3	1283.8	1269.7	1265.3	1299.9	1431.0	1587.1	1551.7	1460.5	1049.8
35°	1399.6	1407.6	1386.4	1361.4	1343.9	1359.6	1480.3	1674.5	1655.4	1566.8	1091.4
37.5°	1523.3	1533.2	1513.5	1464.5	1439.6	1443.9	1544.6	1782.6	1786.6	1687.8	1153.3
40°	1624.6	1637.6	1638.2	1568.9	1531.1	1536.0	1626.2	1898.9	1944.8	1837.4	1226.3
42.5°	1691.4	1704.1	1717.4	1676.7	1636.9	1665.0	1721.3	2025.2	2122.8	2019.0	1328.2
45°	1764.7	1776.2	1783.5	1765.0	1742.9	1815.5	1836.1	2159.4	2312.4	2221.9	1439.6
47.5°	1849.7	1862.4	1869.4	1851.9	1843.6	1947.6	1959.9	2284.7	2515.0	2419.0	1562.8
50°	1963.0	1972.5	1968.9	1957.7	1955.9	2048.9	2078.8	2402.0	2682.2	2631.1	1690.6
52.5°	2104.0	2115.4	2119.4	2103.7	2096.6	2121.2	2174.5	2508.9	2834.3	2813.3	1826.9
55°	2189.3	2207.4	2268.4	2293.0	2310.0	2214.9	2277.7	2626.8	2970.7	3005.5	1973.5
57.5°	2080.0	2103.4	2239.8	2362.9	2522.1	2448.8	2423.9	2749.9	3107.1	3191.7	2148.9
60°	1813.3	1818.6	1994.4	2221.3	2541.5	2749.7	2729.0	2945.7	3254.9	3379.5	2380.2
62.5°	1258.0	1269.1	1476.9	1839.0	2301.9	2858.0	3248.0	3283.8	3466.7	3660.6	2719.1
65°	648.7	634.2	823.6	1155.8	1735.5	2600.6	3668.7	3905.4	3926.0	4100.3	3196.4
67.5°	399.3	405.8	494.5	674.9	1026.1	1890.0	3624.6	4664.9	4556.2	4640.0	3639.4
70°	299.9	307.9	368.9	461.8	625.6	1080.6	2915.0	4849.0	5000.8	4979.3	3774.2
71°	260.7	269.1	332.5	420.2	525.5	834.1	2455.9	4656.3	5016.2	5012.5	3723.4
72.5°	222.3	227.5	277.1	355.9	443.0	584.7	1845.1	4176.0	4802.2	4925.1	3542.1
75°	174.5	178.6	200.8	271.5	348.8	359.0	990.1	3130.7	3944.2	4178.2	2948.9
77.5°	142.3	145.0	156.4	201.6	269.1	254.3	519.4	2037.8	2471.0	2706.5	1737.0
80°	113.0	116.0	122.9	136.7	201.6	181.3	247.8	1032.6	1193.6	1191.2	693.3
82.5°	87.8	88.6	96.7	100.4	138.0	128.7	134.2	437.1	484.3	500.3	250.3
85°	55.4	58.2	85.6	77.0	82.5	75.4	66.2	173.7	214.0	210.9	100.1
87.5°	16.9	17.9	29.0	32.7	36.6	33.0	24.4	51.1	62.5	67.7	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P646745  
 CATALOG NUMBER: GALN-SA1C-835-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5	687.5
2.5°	691.5	688.1	676.1	666.3	657.0	646.8	638.2	635.8	633.6	632.7	632.4
5°	698.0	687.8	664.1	644.7	629.3	615.1	606.2	602.2	598.2	598.2	599.5
7.5°	707.2	688.7	652.1	623.1	603.8	590.5	584.0	583.4	584.4	585.3	585.6
10°	717.4	688.1	634.5	598.5	581.3	575.1	575.4	580.7	585.6	589.3	589.9
12.5°	727.2	684.4	613.9	575.4	564.3	565.6	574.2	585.9	595.4	600.6	601.0
15°	738.3	678.5	589.0	553.6	549.9	559.4	575.4	593.3	607.8	616.4	617.3
17.5°	747.5	668.7	562.8	532.3	536.9	554.5	576.7	599.8	617.3	628.0	629.9
20°	758.0	656.1	535.7	512.0	525.2	549.0	574.2	599.2	617.3	627.7	630.2
22.5°	766.3	638.2	509.8	495.4	514.7	542.1	565.9	585.9	600.6	606.2	609.9
25°	769.7	615.8	485.5	481.9	506.4	531.1	547.1	558.5	563.1	562.5	564.0
27.5°	767.8	589.9	464.6	471.1	496.0	513.8	521.9	520.9	512.6	504.9	508.6
30°	760.1	559.1	447.0	459.9	482.4	492.3	491.1	479.0	463.4	448.9	449.8
32.5°	746.3	525.9	430.7	447.3	463.4	467.7	459.4	443.6	421.2	402.4	399.6
35°	734.6	494.2	416.2	432.8	444.3	442.1	434.1	413.8	393.5	376.9	374.0
37.5°	732.7	467.1	402.4	416.6	423.1	419.9	410.1	392.8	385.5	372.9	371.3
40°	742.6	448.0	388.2	399.3	402.4	400.0	389.2	379.3	386.1	383.0	383.0
42.5°	769.4	437.8	375.6	382.1	384.5	386.4	378.7	370.4	378.7	364.5	359.9
45°	811.9	438.1	364.3	365.1	372.6	379.0	373.7	361.4	357.1	328.8	323.3
47.5°	874.4	448.6	355.0	349.1	362.4	373.2	365.7	347.9	328.8	310.1	306.6
50°	947.4	467.4	346.6	332.5	348.8	365.7	360.2	339.3	319.5	308.2	306.0
52.5°	1028.3	491.1	336.5	314.1	332.2	362.4	361.4	338.0	310.9	303.3	301.4
55°	1128.4	514.4	323.8	292.5	317.4	359.6	358.1	327.9	309.1	303.6	302.9
57.5°	1244.7	548.3	305.7	270.6	300.5	348.2	344.8	321.7	302.9	298.9	298.6
60°	1432.3	601.0	279.8	250.6	283.2	328.2	332.5	311.2	293.1	292.1	291.9
62.5°	1678.8	674.9	253.1	230.0	263.2	302.3	314.6	297.1	282.7	287.3	287.8
65°	2019.4	737.0	225.3	212.4	241.1	277.4	297.7	283.8	270.9	279.8	279.8
67.5°	2241.3	738.3	200.1	194.3	218.6	256.4	279.8	268.2	255.8	270.9	271.5
70°	2195.1	646.8	179.2	175.2	196.8	234.0	260.2	251.0	236.8	250.3	245.4
71°	2120.7	596.0	170.9	167.8	188.1	223.2	251.0	243.2	229.0	238.0	235.2
72.5°	2001.8	517.6	157.3	157.9	175.2	209.7	238.0	230.0	215.8	220.7	219.8
75°	1692.1	451.9	134.5	137.3	150.6	186.6	212.1	205.9	191.5	191.5	190.6
77.5°	1057.8	315.9	111.7	113.3	127.8	159.8	182.3	177.0	163.2	158.6	157.3
80°	394.7	163.2	87.5	89.3	98.2	125.9	150.9	146.0	131.8	126.5	121.6
82.5°	149.3	81.9	64.4	62.8	72.3	96.1	118.2	112.4	101.3	88.6	85.0
85°	56.4	40.6	39.4	38.2	42.5	56.9	73.3	72.0	60.4	51.4	50.5
87.5°	14.8	13.2	15.4	11.4	12.0	10.8	11.1	4.6	2.2	0.9	0.6
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)