

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: P648231

Luminaire Tested: **GALN-SA1B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648231
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-SA1B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA 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: 2692.7 lumens
Efficiency: N/A
Efficacy: 61.2 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

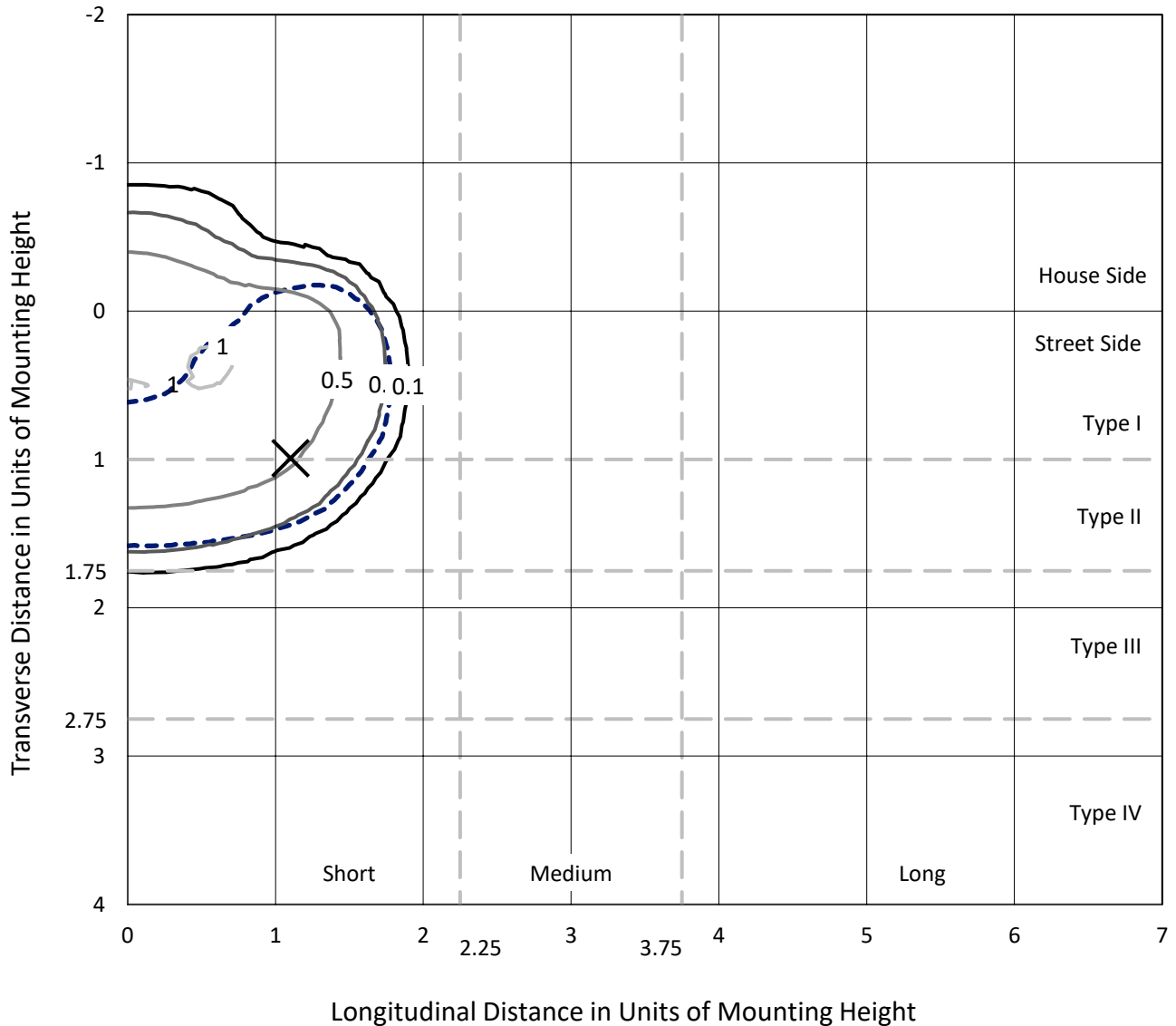
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648231
 CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

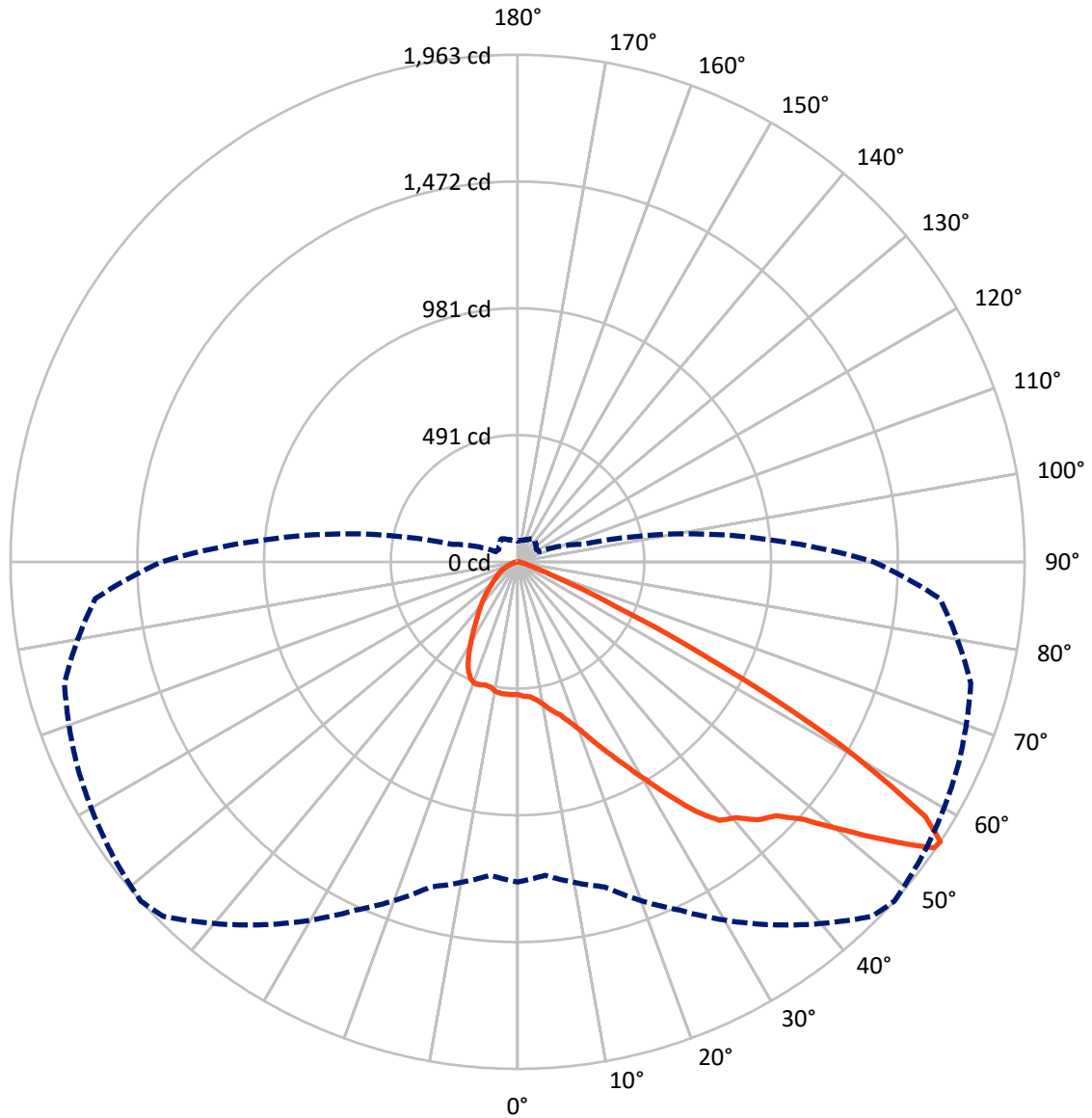
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

REPORT NUMBER: P648231
CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648231
 CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

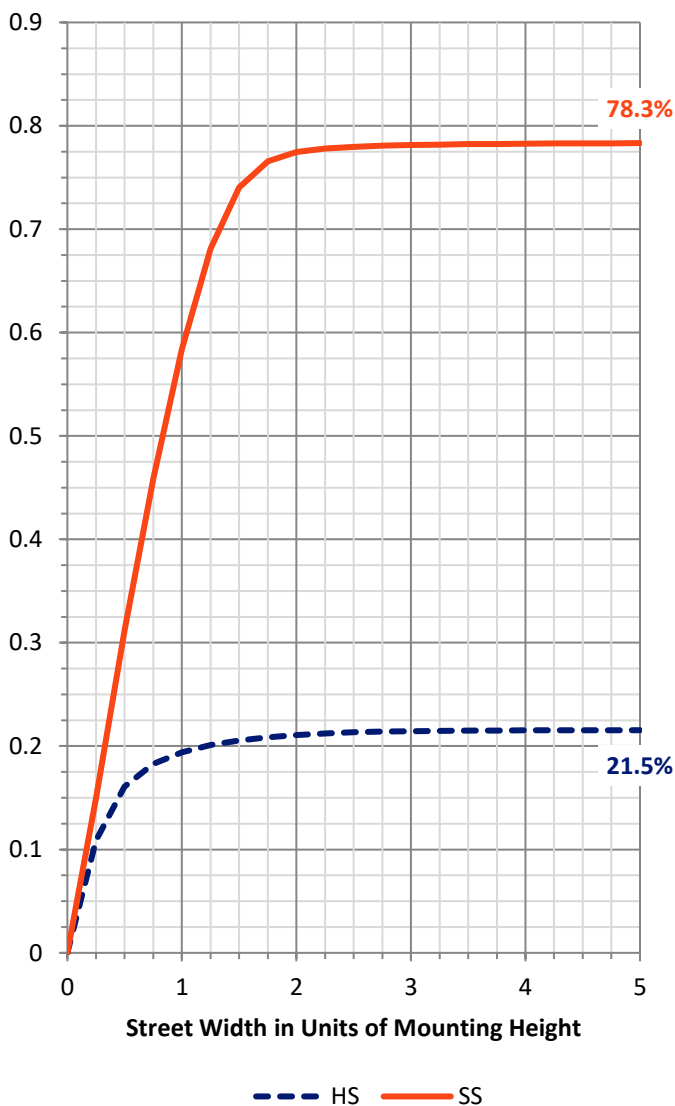
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.6	0.0	585.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2107.1	0.0	2107.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	2692.7	0.0	2692.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.9
10°-20°	160.1	5.9
20°-30°	290.4	10.8
30°-40°	456.2	16.9
40°-50°	665.5	24.7
50°-60°	801.8	29.8
60°-70°	234.7	8.7
70°-80°	29.8	1.1
80°-90°	4.2	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°	2692.7	100.0
0°-180°	2692.7	100.0

Coefficient of Utilization

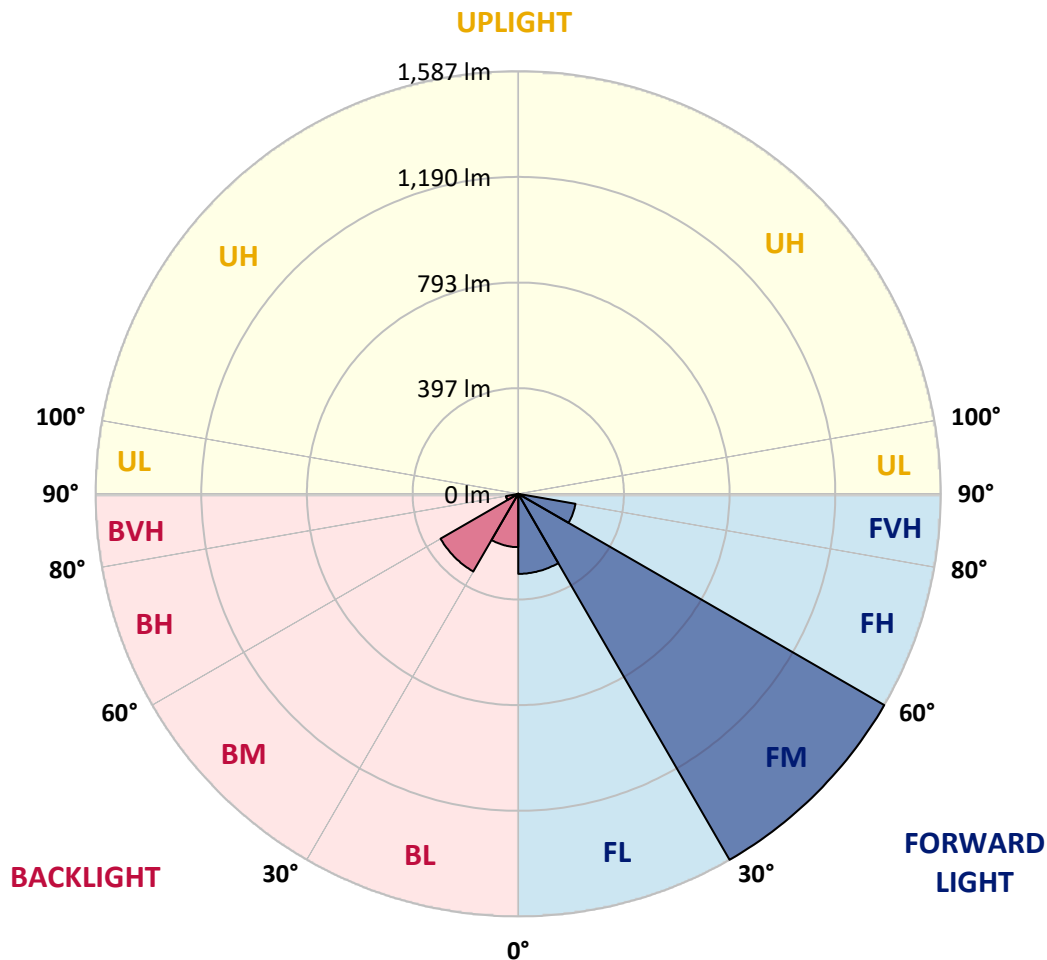


REPORT NUMBER: P648231
 CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.5	11.2			
FM (30°-60°)	1586.6	58.9			
FH (60°-80°)	218.0	8.1			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	200.2	7.4	B1/500		
BM (30°-60°)	336.8	12.5	B1/1000		
BH (60°-80°)	46.5	1.7	B0/110		G0/110
BVH (80°-90°)	2.1	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





REPORT NUMBER: P648231

CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
2.5°	523.6	521.2	521.2	517.2	521.6	519.7	521.2	516.3	521.2	513.8	519.7
5°	526.1	526.6	524.6	527.0	527.0	530.0	525.1	529.5	532.0	526.6	524.1
7.5°	538.9	539.8	539.3	537.4	541.3	540.8	540.3	536.9	537.8	535.9	532.9
10°	563.8	563.4	565.8	560.9	558.0	561.4	562.4	556.9	553.0	551.5	542.2
12.5°	600.1	594.2	590.8	585.9	587.3	582.5	591.3	582.0	580.0	571.2	561.9
15°	629.5	628.5	629.1	621.2	612.4	614.3	614.3	609.4	606.5	595.7	582.5
17.5°	689.8	669.2	673.7	663.8	656.5	656.0	651.6	652.6	644.7	622.2	602.0
20°	736.9	728.1	721.2	704.5	693.3	696.7	694.8	689.8	687.4	658.0	629.5
22.5°	779.1	782.0	770.7	766.3	750.7	752.1	756.1	751.6	733.0	702.6	660.4
25°	838.4	835.0	819.8	814.4	799.7	805.1	820.3	816.8	805.1	750.1	684.4
27.5°	908.5	896.8	899.7	875.2	861.0	876.2	894.3	911.4	878.1	806.0	712.8
30°	958.0	945.8	944.8	943.8	940.4	958.0	979.1	994.8	967.9	861.9	760.0
32.5°	982.5	985.5	993.8	990.9	1020.8	1057.0	1079.1	1101.7	1067.9	953.1	822.2
35°	1047.7	1029.1	1047.7	1049.7	1080.6	1157.6	1185.5	1239.5	1231.1	1082.1	898.2
37.5°	1086.0	1084.5	1087.0	1105.6	1135.5	1230.6	1270.3	1312.0	1296.3	1159.5	992.8
40°	1149.2	1153.1	1152.7	1166.9	1199.7	1285.5	1301.7	1335.6	1337.1	1266.9	1132.1
42.5°	1250.8	1235.0	1224.8	1239.5	1285.5	1333.1	1365.5	1358.6	1407.1	1397.3	1311.1
45°	1341.9	1351.2	1336.0	1360.5	1377.2	1402.7	1401.7	1416.4	1478.2	1524.8	1445.9
47.5°	1427.3	1433.1	1440.5	1457.2	1493.4	1497.3	1489.0	1482.6	1568.0	1616.0	1550.3
50°	1478.2	1483.6	1517.9	1547.8	1615.5	1624.3	1629.3	1613.1	1670.9	1676.3	1648.8
52.5°	1464.5	1470.4	1518.4	1617.0	1724.9	1805.8	1791.0	1763.6	1760.1	1781.2	1740.1
55°	1342.9	1337.5	1403.7	1557.2	1759.2	1953.4	1955.3	1926.3	1871.0	1856.7	1726.3
56°	1239.5	1218.3	1302.7	1488.0	1715.0	1940.6	1962.7	1931.7	1879.7	1816.0	1641.5
57.5°	1015.4	1035.5	1119.3	1272.8	1562.6	1848.9	1861.7	1854.3	1815.1	1708.2	1444.4
60°	559.9	595.2	669.2	857.0	1112.5	1418.9	1429.2	1489.0	1496.4	1308.1	993.8
62.5°	237.8	233.9	310.9	449.1	633.4	856.5	875.6	936.9	948.2	754.0	498.6
65°	96.6	101.9	140.7	226.1	334.9	390.2	417.3	437.3	474.6	311.3	183.8
67.5°	63.7	63.3	82.8	129.0	180.4	174.1	174.1	183.8	170.1	127.0	79.4
70°	45.6	47.1	59.4	89.3	112.3	83.3	79.9	76.5	86.8	83.9	64.2
72.5°	29.9	31.9	39.7	53.5	58.3	45.6	45.6	54.9	71.6	67.7	52.5
75°	19.6	20.1	24.5	30.9	28.9	23.6	26.0	36.8	52.0	50.0	37.3
77.5°	13.2	13.7	16.7	20.1	16.2	13.2	14.3	18.6	25.5	25.5	19.6
80°	4.9	5.4	6.9	6.3	7.4	9.3	10.3	12.8	15.2	15.2	13.2
82.5°	0.0	0.5	1.5	3.4	5.4	7.4	8.3	9.8	11.3	12.8	12.3
85°	0.0	0.5	1.5	2.4	3.9	4.4	4.9	3.4	3.0	3.0	2.4
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5
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: P648231

CATALOG NUMBER: GALN-SA1B-835-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
2.5°	514.4	513.8	513.8	512.3	515.3	513.8	514.8	514.4	507.9	512.9	509.4
5°	519.7	523.1	517.7	516.8	512.9	514.4	514.4	509.4	513.8	513.3	512.3
7.5°	533.5	527.6	521.6	515.8	514.8	513.3	507.9	506.0	509.4	505.5	511.4
10°	539.3	540.3	531.5	523.6	516.3	506.0	498.6	494.2	488.8	494.7	498.1
12.5°	566.3	556.5	541.3	529.0	504.0	493.8	486.4	484.4	493.8	495.7	492.3
15°	575.6	574.1	554.5	527.0	501.0	488.8	490.3	486.4	487.3	482.4	483.4
17.5°	594.7	578.1	555.0	520.7	500.6	497.7	488.8	473.2	464.3	460.4	463.8
20°	615.8	599.6	566.3	523.1	505.0	497.1	468.2	449.1	431.0	421.2	421.6
22.5°	634.5	614.3	561.4	524.1	509.0	476.5	441.8	404.0	381.5	366.2	366.8
25°	657.0	628.5	563.4	526.1	498.6	443.7	393.7	357.0	330.0	319.7	323.1
27.5°	669.7	637.4	574.1	530.5	471.7	397.1	343.2	308.9	293.2	288.3	287.8
30°	708.0	657.0	587.3	521.6	426.6	347.1	297.1	276.0	260.8	256.4	257.4
32.5°	764.8	692.8	604.6	498.6	380.5	302.5	267.2	251.5	237.3	228.9	228.0
35°	812.4	754.0	622.6	462.8	327.1	268.2	246.1	226.5	204.9	195.6	193.2
37.5°	903.1	823.2	618.7	408.9	276.0	242.7	223.5	199.6	181.0	168.2	166.7
40°	1023.7	904.1	599.6	343.2	238.3	220.1	199.6	176.5	153.5	142.7	141.7
42.5°	1170.4	1003.1	564.8	276.6	200.5	197.6	179.0	152.5	131.9	124.0	124.5
45°	1289.4	1088.0	529.5	222.1	172.6	175.5	159.3	134.4	120.1	113.8	113.8
47.5°	1395.4	1145.3	491.3	183.4	146.6	153.5	139.2	124.5	112.3	107.3	106.4
50°	1497.3	1203.6	453.0	148.5	125.0	131.9	130.4	118.6	108.8	103.0	103.4
52.5°	1561.1	1212.9	404.5	121.6	109.3	117.2	122.1	111.3	100.5	97.1	96.1
55°	1483.2	1092.8	313.7	100.0	92.6	103.0	112.3	100.0	91.7	85.8	85.3
56°	1378.2	977.2	262.3	92.2	87.8	99.0	108.8	95.6	86.3	82.8	80.4
57.5°	1166.9	799.7	193.6	81.9	81.4	92.2	103.4	91.2	80.4	77.4	77.4
60°	727.6	450.1	117.2	68.7	70.6	81.9	93.2	81.4	71.6	71.6	73.1
62.5°	331.4	187.3	71.1	58.3	60.8	70.6	82.8	73.5	68.1	73.5	74.5
65°	112.8	80.9	51.4	46.6	48.1	58.3	71.1	74.5	74.1	77.4	79.4
67.5°	63.3	52.0	43.1	38.8	37.7	43.1	58.3	74.5	71.6	70.1	71.1
70°	53.5	44.2	38.2	34.3	32.9	34.8	45.1	56.4	50.5	49.0	48.1
72.5°	43.1	36.8	33.4	30.9	26.5	22.6	20.6	21.6	24.0	25.5	28.0
75°	30.4	28.0	28.0	25.0	19.1	14.3	11.3	9.3	6.3	4.4	4.9
77.5°	17.1	17.1	17.6	15.2	12.3	9.3	6.9	4.9	2.4	1.0	0.5
80°	11.7	12.8	13.7	12.3	10.3	8.3	5.9	3.4	1.5	0.0	0.0
82.5°	11.7	13.2	14.3	12.3	10.3	7.8	5.9	3.4	1.5	0.5	0.0
85°	2.4	3.0	3.4	3.9	5.9	5.9	4.4	3.0	1.5	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)