

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: P646738

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646738
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-SA1C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3285.4 lumens
Efficiency: N/A
Efficacy: 57.6 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

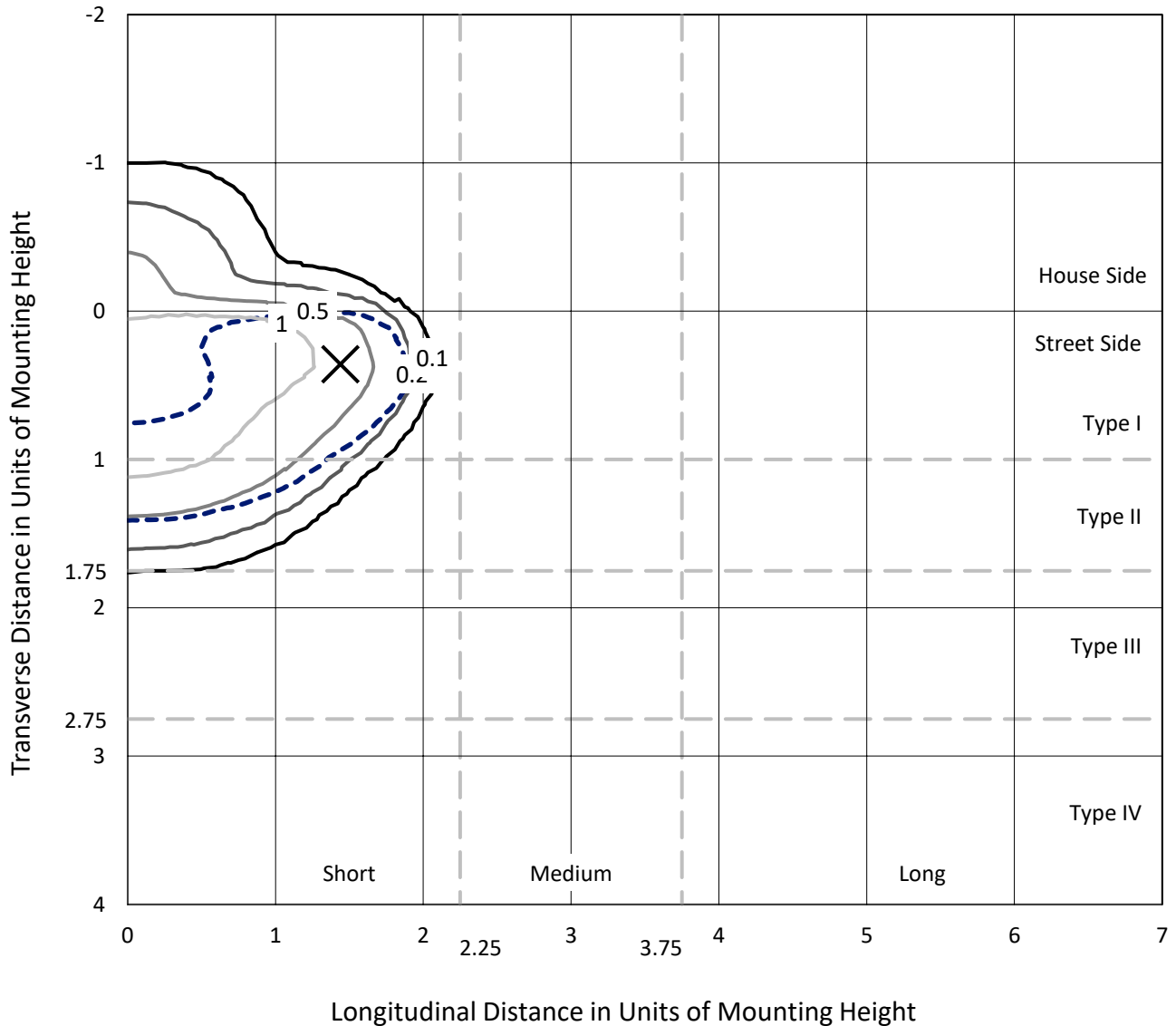
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

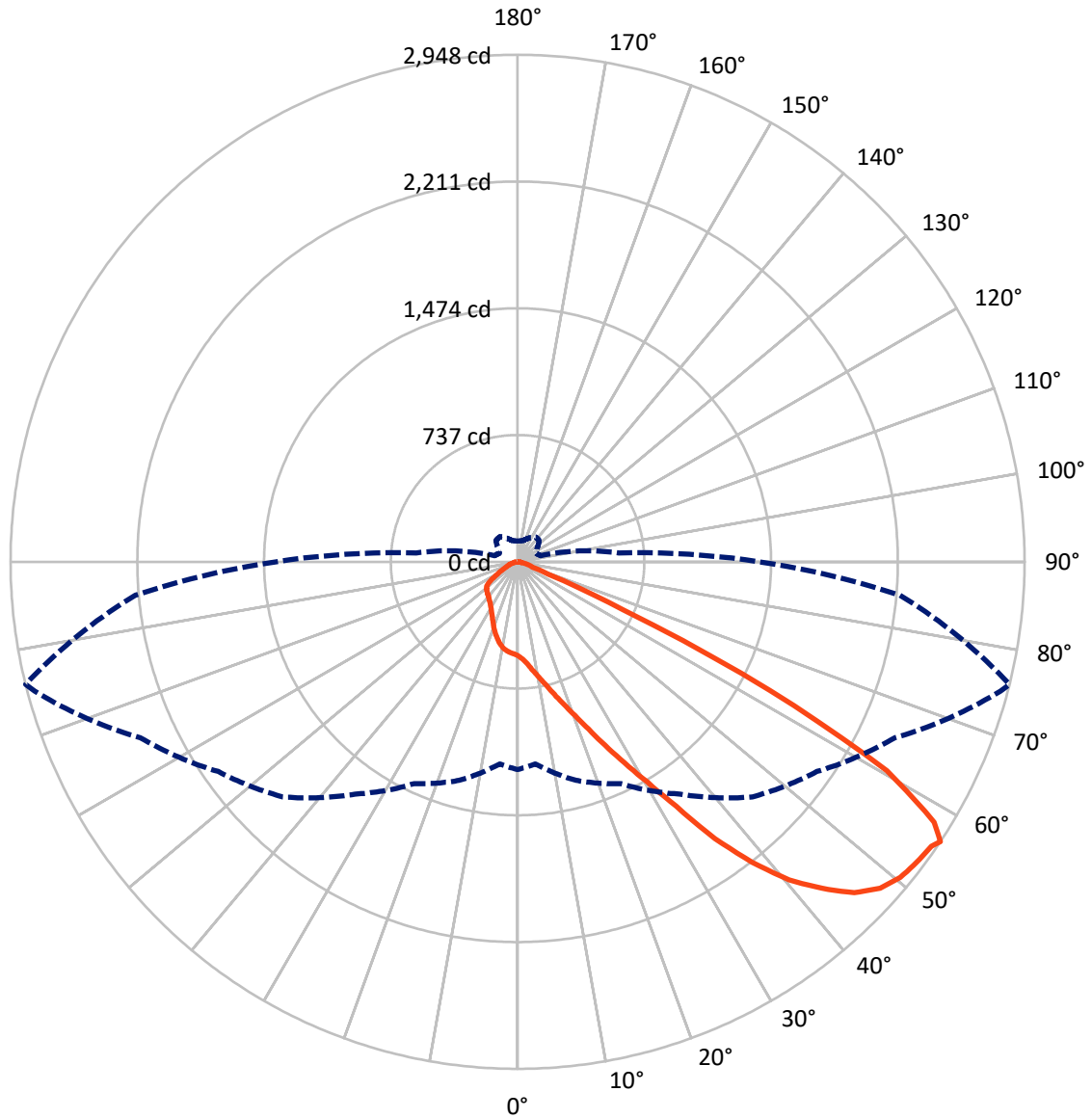
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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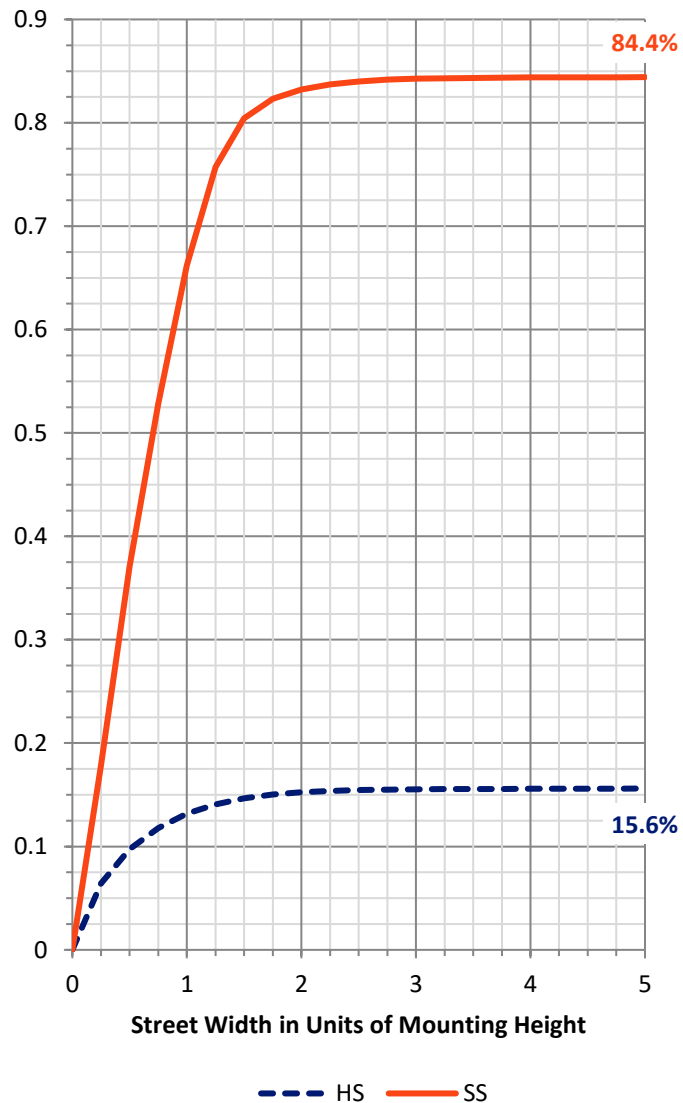
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.1	0.0	516.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2769.3	0.0	2769.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	3285.4	0.0	3285.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.7
10°-20°	177.0	5.4
20°-30°	320.9	9.8
30°-40°	553.4	16.8
40°-50°	899.1	27.4
50°-60°	947.7	28.8
60°-70°	289.5	8.8
70°-80°	37.1	1.1
80°-90°	5.6	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°	3285.4	100.0
0°-180°	3285.4	100.0

Coefficient of Utilization

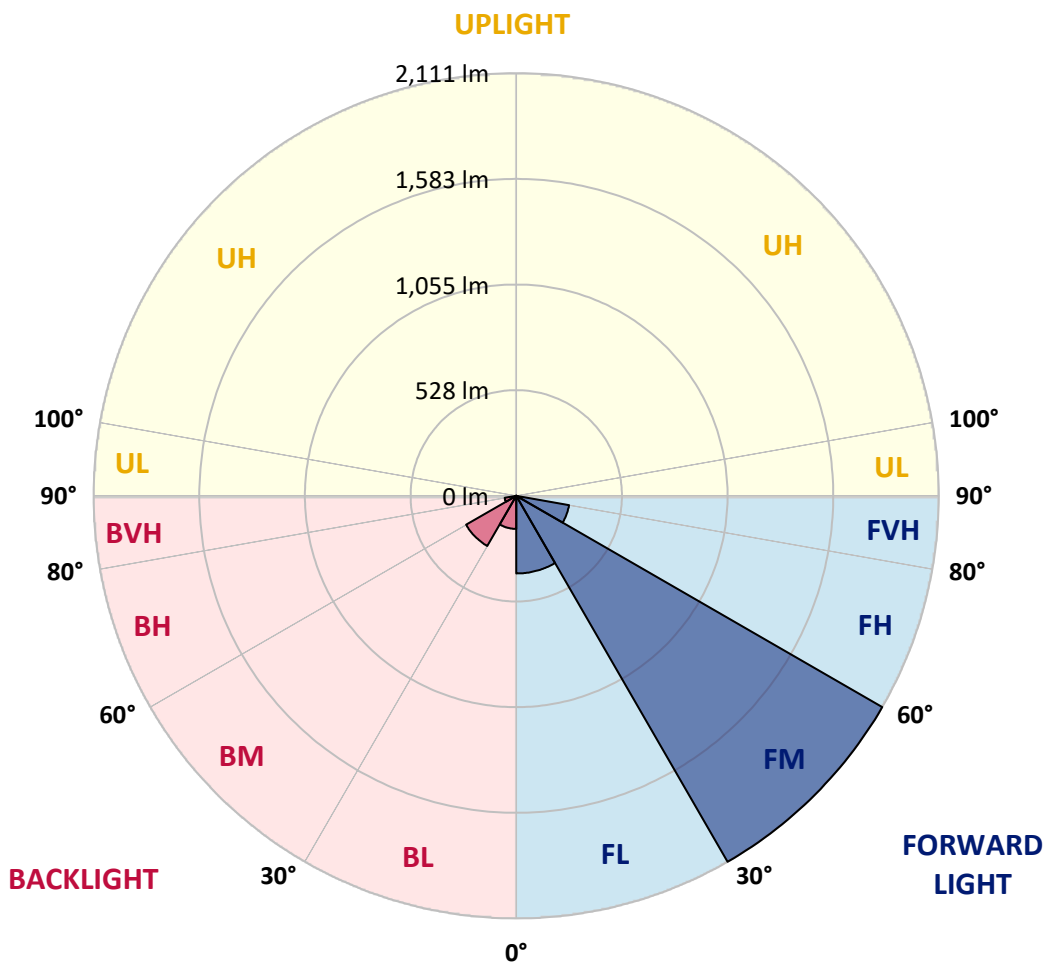


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.9	11.8			
FM (30°-60°)	2110.9	64.3			
FH (60°-80°)	267.8	8.2			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	165.1	5.0	B1/500		
BM (30°-60°)	289.3	8.8	B1/1000		
BH (60°-80°)	58.9	1.8	B0/110		G0/110
BVH (80°-90°)	2.9	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°	55°	65°	75°	76°	85°
0°	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8
2.5°	629.8	615.3	615.9	614.7	612.9	606.2	586.2	583.2	569.9	566.3	554.1
5°	705.6	692.8	700.1	689.2	678.9	672.8	640.1	625.0	603.8	595.9	579.0
7.5°	752.8	746.7	744.3	744.9	735.2	720.0	705.6	672.2	643.8	637.7	602.0
10°	775.8	772.2	775.8	774.0	778.2	780.0	754.6	734.6	692.8	682.5	626.8
12.5°	781.3	788.5	791.5	799.4	809.7	827.2	825.4	798.2	742.5	735.8	665.0
15°	794.6	800.6	797.6	810.3	829.7	859.3	875.1	870.9	811.0	798.8	709.2
17.5°	806.6	795.8	806.1	831.5	850.9	896.3	934.4	952.0	885.4	871.5	749.7
20°	823.0	820.0	818.2	830.9	865.4	926.0	1001.7	1033.8	969.0	954.5	807.9
22.5°	872.7	873.3	872.1	853.3	878.1	946.6	1060.4	1139.7	1068.9	1056.8	873.9
25°	938.1	930.2	924.2	909.1	906.0	965.4	1119.8	1269.4	1188.8	1180.4	945.4
27.5°	1007.2	1007.2	989.0	975.1	955.7	1011.9	1174.3	1395.3	1333.5	1322.1	1007.7
30°	1082.3	1086.5	1084.1	1054.4	1042.3	1062.8	1230.0	1556.4	1499.5	1485.0	1110.7
32.5°	1193.1	1184.0	1194.3	1169.4	1133.7	1151.9	1317.8	1700.6	1715.1	1694.5	1245.8
35°	1339.6	1334.2	1327.5	1286.9	1244.6	1259.1	1442.0	1878.0	1985.8	1975.5	1382.0
37.5°	1471.0	1468.0	1462.6	1434.7	1385.7	1403.2	1583.1	2062.7	2249.9	2216.0	1574.6
40°	1609.1	1625.5	1607.9	1583.1	1538.3	1577.0	1749.0	2172.4	2472.1	2431.0	1721.7
42.5°	1796.3	1783.5	1791.4	1746.0	1721.7	1764.2	1915.5	2282.0	2644.7	2595.6	1878.0
45°	1995.5	1996.1	1974.9	1960.4	1897.4	1943.4	2017.9	2342.5	2782.2	2744.0	1996.1
47.5°	2123.3	2122.7	2145.7	2168.7	2103.9	2058.5	2087.6	2400.1	2853.0	2835.5	2039.1
50°	2103.3	2109.3	2139.0	2225.1	2259.0	2197.8	2152.9	2383.1	2885.1	2883.3	2076.0
52.5°	1829.6	1849.5	1899.2	2023.4	2194.1	2269.8	2221.4	2414.6	2900.9	2903.9	2131.2
55°	1392.9	1403.8	1498.3	1649.1	1838.0	2097.3	2194.1	2439.4	2913.0	2918.5	2197.8
56°	1208.2	1179.1	1315.4	1422.6	1648.4	1931.9	2125.1	2420.0	2905.7	2947.5	2231.1
57.5°	912.0	892.7	1002.9	1136.8	1354.1	1653.3	1910.8	2328.6	2856.7	2856.1	2183.2
60°	554.8	535.3	620.1	698.9	820.6	1018.1	1291.2	1854.4	2415.2	2466.1	1767.8
62.5°	330.0	342.2	425.7	473.6	512.9	533.5	668.0	1102.2	1611.6	1647.9	1096.7
65°	219.9	224.1	287.0	365.8	383.4	305.2	271.9	446.3	698.9	676.5	452.4
67.5°	135.7	145.3	192.6	274.9	304.6	222.8	129.0	166.5	192.6	192.6	130.8
70°	82.4	87.2	128.4	187.1	208.9	143.5	93.9	93.9	92.6	90.8	78.1
72.5°	39.4	42.4	65.4	96.3	98.1	75.7	72.7	79.3	77.5	76.9	64.8
75°	17.0	18.2	23.0	30.3	34.5	32.1	44.2	56.9	58.7	56.9	46.7
77.5°	5.5	6.0	8.5	10.9	11.5	13.9	18.8	23.6	27.2	25.4	23.0
80°	0.6	1.2	2.4	5.5	8.5	10.9	13.9	15.7	17.5	17.5	16.4
82.5°	0.6	0.6	2.4	4.9	7.9	10.3	13.3	15.1	17.5	18.2	17.0
85°	0.0	0.6	1.8	4.2	6.7	6.7	6.0	6.0	4.2	4.2	4.2
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8
2.5°	551.7	550.5	534.2	523.8	518.4	507.5	500.8	496.0	492.4	488.1	488.7
5°	559.0	554.8	527.5	508.7	486.3	474.2	463.9	455.4	450.0	448.7	446.3
7.5°	579.6	557.2	516.0	482.1	453.6	441.5	432.4	427.0	429.4	423.9	428.1
10°	595.3	562.0	502.1	453.0	424.5	415.5	410.6	414.8	420.9	418.5	415.5
12.5°	614.7	566.9	479.7	425.2	398.5	391.8	400.3	408.2	420.3	425.2	419.1
15°	636.5	572.3	451.2	393.1	376.1	381.6	396.0	410.0	422.1	428.1	431.8
17.5°	663.1	570.5	423.3	367.6	354.9	370.7	388.2	400.9	419.1	428.1	425.7
20°	687.9	564.5	392.4	342.2	342.8	357.3	371.8	392.4	402.1	414.2	410.0
22.5°	711.6	553.5	360.3	324.6	324.6	347.0	354.3	367.6	376.1	382.2	381.6
25°	744.9	532.9	333.7	307.6	314.9	329.5	335.5	339.7	336.1	341.0	341.5
27.5°	768.5	511.8	311.9	292.5	305.8	316.7	314.9	312.5	304.0	297.4	301.6
30°	794.0	486.9	293.2	282.2	289.5	299.2	291.9	284.6	271.3	260.4	261.1
32.5°	830.3	475.4	276.8	270.1	279.8	281.0	273.1	262.2	248.9	238.6	238.0
35°	898.1	468.2	262.9	262.2	264.0	264.7	256.7	243.4	238.0	229.5	232.6
37.5°	966.0	464.5	253.1	250.7	250.1	250.7	241.6	228.9	239.2	238.6	239.8
40°	1052.6	480.8	239.2	236.2	236.8	236.8	225.3	221.7	239.8	241.6	242.3
42.5°	1140.4	501.4	230.1	220.4	222.8	222.8	216.8	212.6	225.3	213.2	211.3
45°	1216.7	531.7	220.4	204.7	210.8	213.8	212.0	204.7	196.8	176.3	176.3
47.5°	1241.5	558.4	208.9	189.6	194.4	207.7	202.2	187.1	173.2	156.3	155.0
50°	1285.1	587.5	199.8	172.0	182.3	198.6	193.2	178.1	162.3	150.2	150.8
52.5°	1329.9	620.8	182.9	151.4	164.1	191.4	191.4	174.5	150.2	141.7	140.5
55°	1397.2	619.5	152.6	124.2	146.6	180.5	183.5	156.3	134.4	127.8	127.8
56°	1406.8	591.7	137.5	116.3	138.7	177.4	178.1	151.4	128.4	121.1	121.1
57.5°	1334.2	534.2	120.5	106.6	129.0	172.0	172.6	147.1	123.6	113.2	112.0
60°	1026.5	361.6	100.5	95.1	116.9	155.0	158.1	133.8	108.4	100.5	99.9
62.5°	579.6	200.4	88.4	86.0	100.5	132.0	141.1	116.9	92.1	87.9	89.0
65°	264.7	110.2	74.5	69.6	81.1	101.7	113.8	96.3	75.7	70.9	70.9
67.5°	96.9	75.1	63.6	55.1	56.9	66.0	73.9	62.4	50.3	43.0	44.8
70°	69.1	63.0	55.7	47.8	44.2	43.0	42.4	35.2	24.8	19.4	20.6
72.5°	55.7	52.1	46.7	40.6	34.5	29.0	24.8	18.2	11.5	7.9	7.3
75°	39.9	38.1	33.9	29.0	24.2	20.6	17.0	11.5	6.0	3.1	3.1
77.5°	20.6	20.6	20.0	18.2	15.1	12.1	9.7	6.7	3.6	1.2	1.2
80°	15.7	17.0	17.5	15.7	13.9	10.9	7.9	4.9	2.4	0.6	0.6
82.5°	15.1	17.5	18.8	16.4	13.9	10.3	7.9	4.9	2.4	0.6	0.6
85°	3.6	3.6	5.5	6.0	7.9	8.5	6.7	4.2	1.8	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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)