

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: P526137

Luminaire Tested: **GALN-SA1A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526137
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-SA1A-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 2763 lumens
Efficiency: N/A
Efficacy: 83.7 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

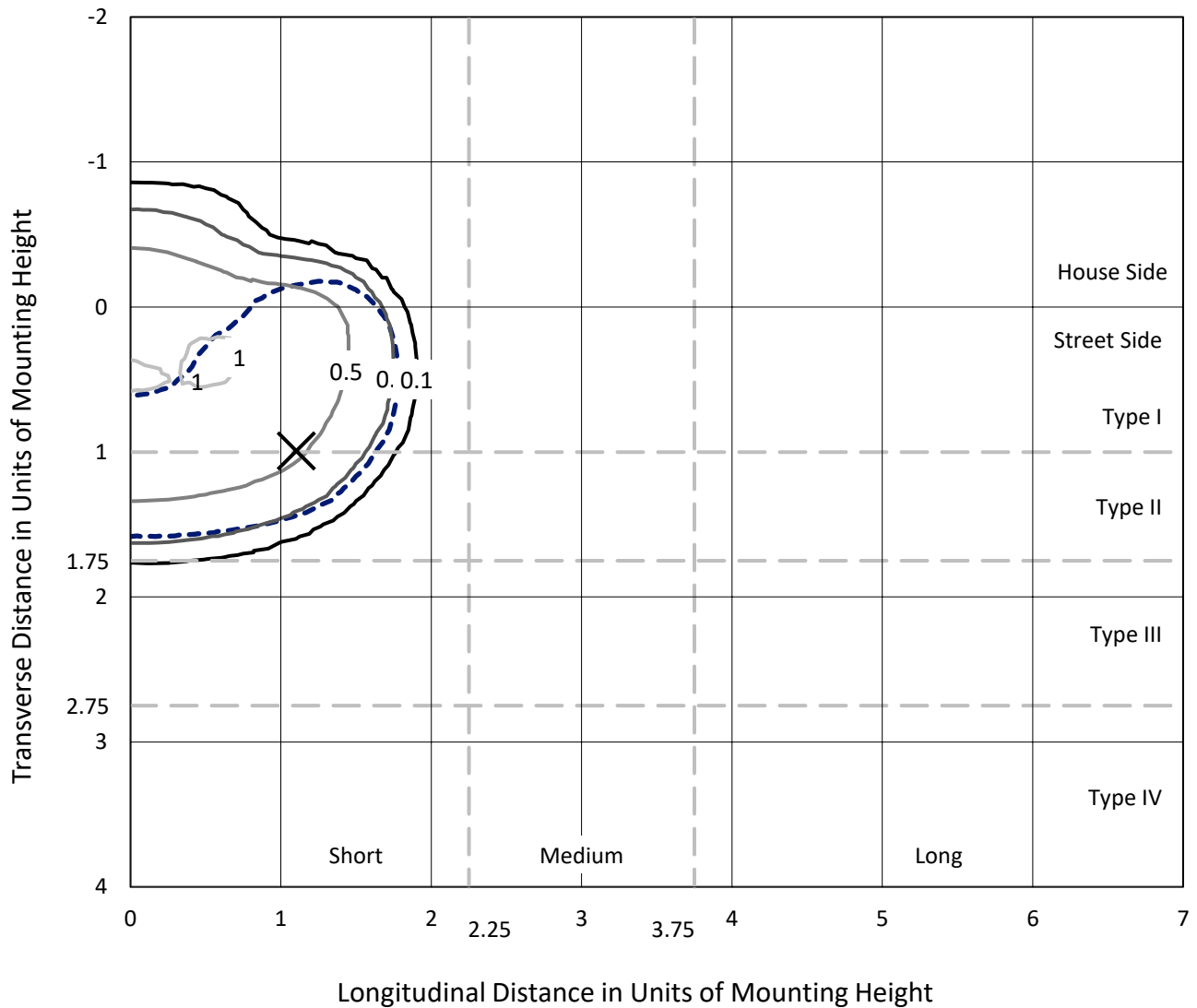
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526137
 CATALOG NUMBER: GALN-SA1A-740-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

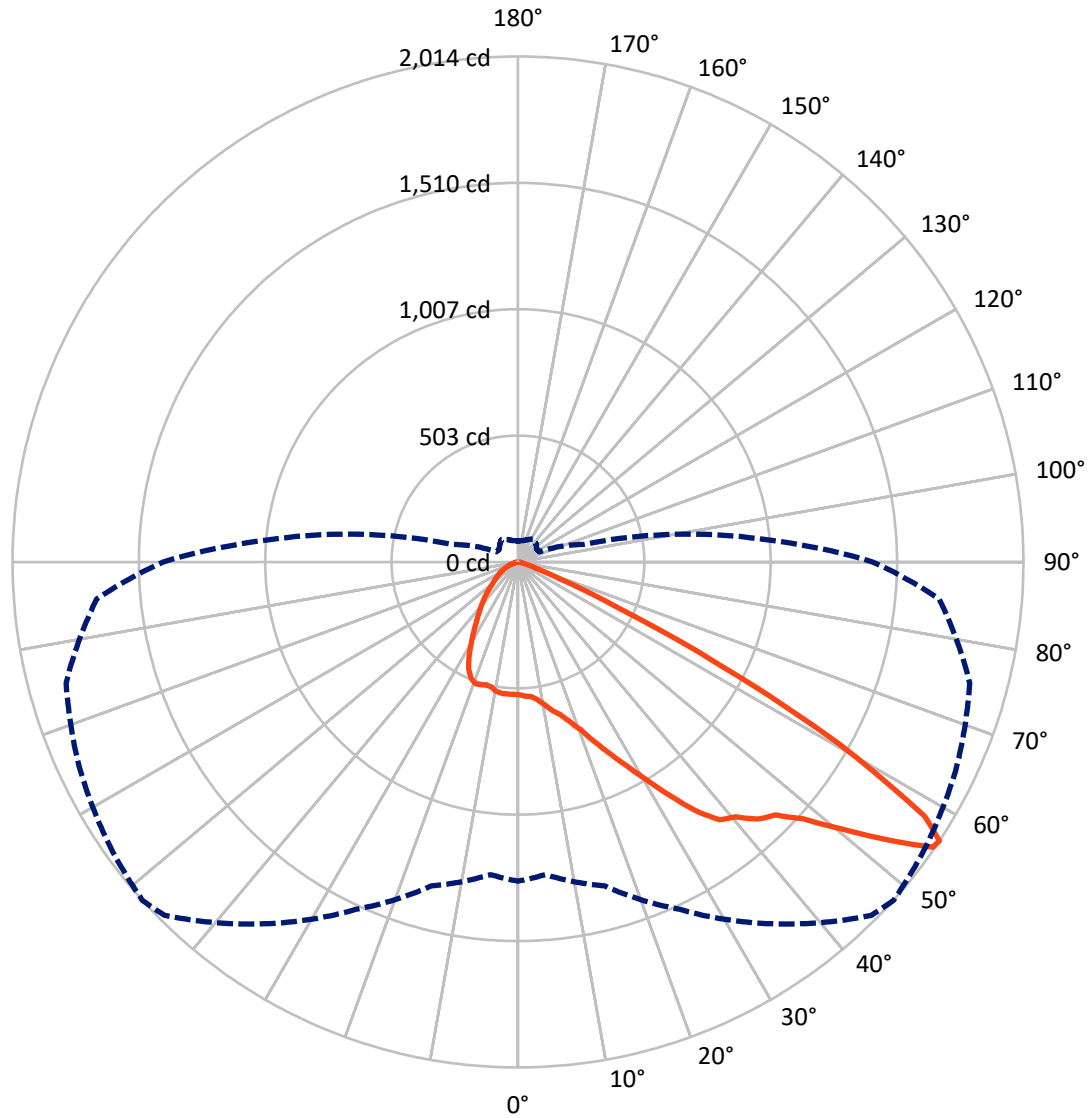
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526137
CATALOG NUMBER: GALN-SA1A-740-U-T3-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1A-740-U-T3-GRSBK

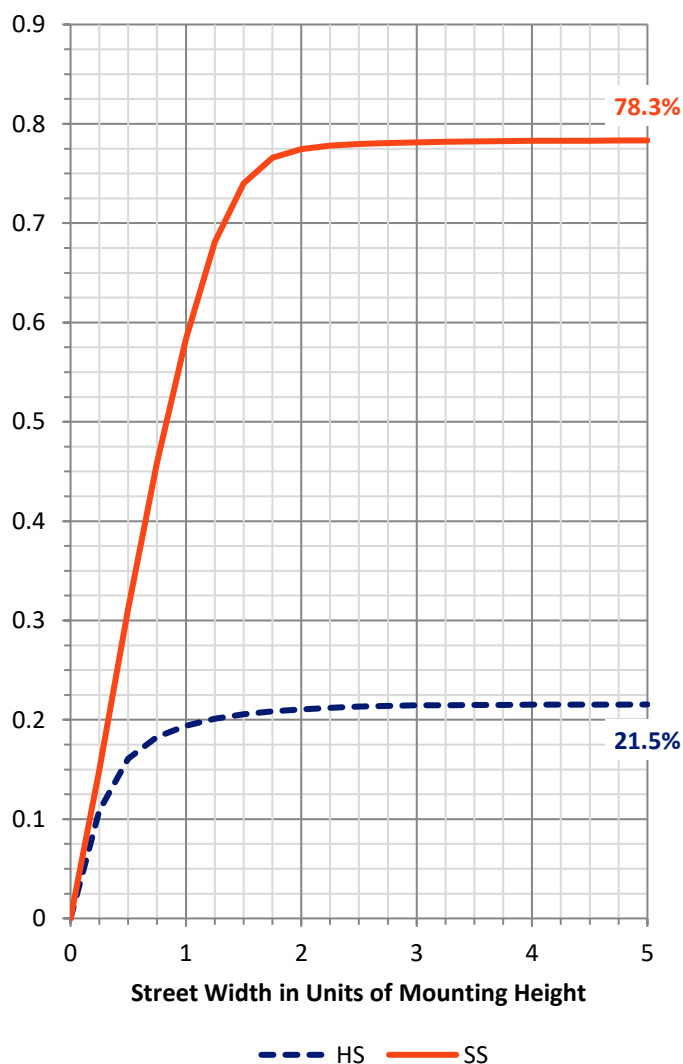
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.9	0.0	600.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2162.1	0.0	2162.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	2763.0	0.0	2763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.9
10°-20°	164.3	5.9
20°-30°	298.0	10.8
30°-40°	468.1	16.9
40°-50°	682.8	24.7
50°-60°	822.7	29.8
60°-70°	240.9	8.7
70°-80°	30.6	1.1
80°-90°	4.3	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°	2763.0	100.0
0°-180°	2763.0	100.0

Coefficient of Utilization

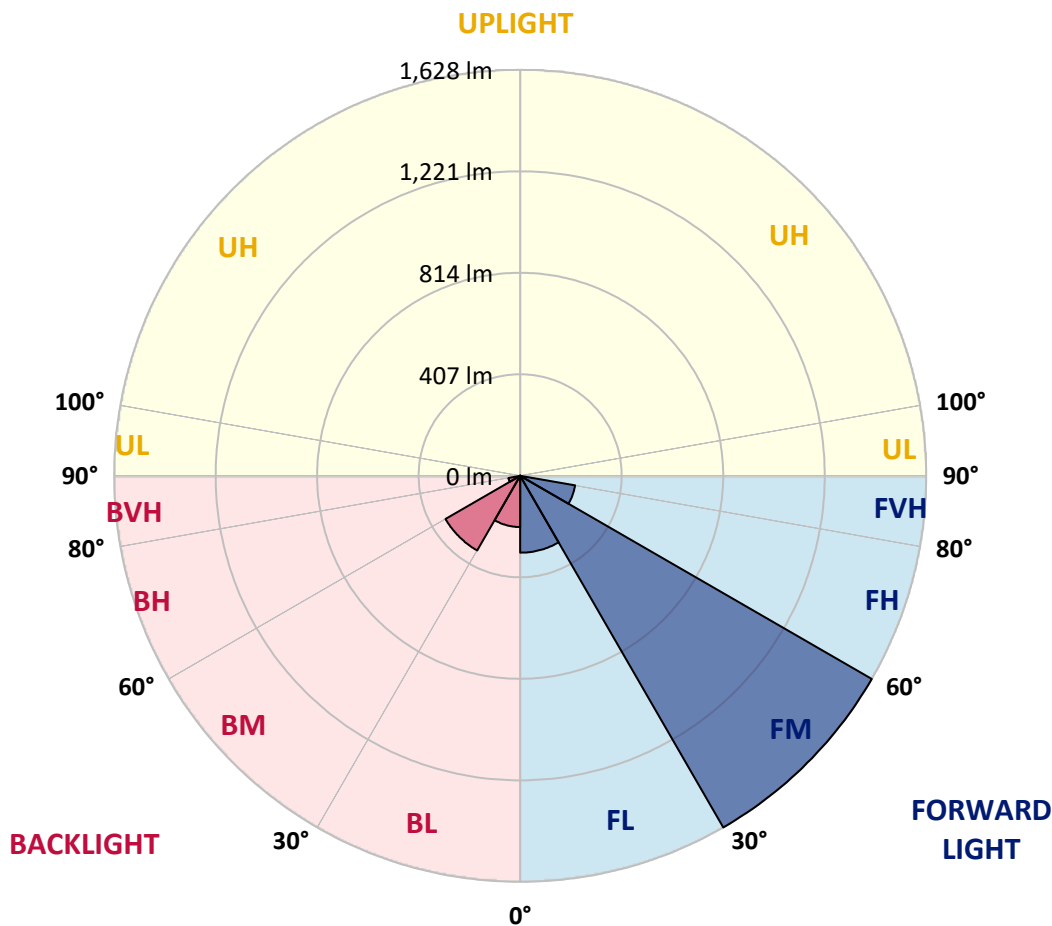


REPORT NUMBER: P526137
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.3	11.2			
FM (30°-60°)	1628.0	58.9			
FH (60°-80°)	223.7	8.1			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	205.4	7.4	B1/500		
BM (30°-60°)	345.6	12.5	B1/1000		
BH (60°-80°)	47.7	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: P526137

CATALOG NUMBER: GALN-SA1A-740-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	537.3	534.8	534.8	530.8	535.3	533.3	534.8	529.7	534.8	527.2	533.3
5°	539.8	540.3	538.3	540.8	540.8	543.8	538.8	543.3	545.8	540.3	537.8
7.5°	552.9	553.9	553.4	551.4	555.4	554.9	554.4	550.9	551.9	549.9	546.9
10°	578.5	578.0	580.6	575.5	572.5	576.0	577.0	571.5	567.5	566.0	556.4
12.5°	615.8	609.7	606.2	601.2	602.7	597.7	606.7	597.2	595.1	586.1	576.5
15°	646.0	645.0	645.5	637.4	628.4	630.4	630.4	625.3	622.3	611.2	597.7
17.5°	707.8	686.7	691.2	681.2	673.6	673.1	668.6	669.6	661.6	638.4	617.8
20°	756.1	747.1	740.0	722.9	711.4	714.9	712.9	707.8	705.3	675.1	646.0
22.5°	799.4	802.4	790.8	786.3	770.2	771.7	775.8	771.2	752.1	720.9	677.7
25°	860.3	856.8	841.2	835.6	820.5	826.1	841.7	838.1	826.1	769.7	702.3
27.5°	932.2	920.1	923.2	898.0	883.4	899.0	917.6	935.2	901.0	827.1	731.5
30°	983.0	970.4	969.4	968.4	964.9	983.0	1004.7	1020.8	993.1	884.4	779.8
32.5°	1008.2	1011.2	1019.7	1016.7	1047.4	1084.6	1107.3	1130.4	1095.7	978.0	843.7
35°	1075.1	1056.0	1075.1	1077.1	1108.8	1187.8	1216.5	1271.8	1263.2	1110.3	921.6
37.5°	1114.3	1112.8	1115.3	1134.5	1165.1	1262.7	1303.5	1346.3	1330.2	1189.8	1018.7
40°	1179.2	1183.3	1182.7	1197.3	1231.0	1319.1	1335.7	1370.4	1371.9	1300.0	1161.6
42.5°	1283.4	1267.3	1256.7	1271.8	1319.1	1367.9	1401.1	1394.0	1443.8	1433.8	1345.2
45°	1376.9	1386.5	1370.9	1396.1	1413.2	1439.3	1438.3	1453.4	1516.8	1564.6	1483.6
47.5°	1464.5	1470.5	1478.1	1495.2	1532.4	1536.4	1527.9	1521.3	1608.9	1658.2	1590.7
50°	1516.8	1522.3	1557.5	1588.2	1657.7	1666.7	1671.7	1655.1	1714.5	1720.0	1691.9
52.5°	1502.7	1508.7	1558.0	1659.2	1769.8	1852.9	1837.8	1809.6	1806.1	1827.7	1785.4
55°	1377.9	1372.4	1440.3	1597.8	1805.1	2004.3	2006.3	1976.6	1919.8	1905.2	1771.4
56°	1271.8	1250.2	1336.7	1526.9	1759.8	1991.2	2013.8	1982.1	1928.8	1863.4	1684.3
57.5°	1041.9	1062.5	1148.5	1306.0	1603.3	1897.1	1910.2	1902.7	1862.4	1752.7	1482.1
60°	574.5	610.7	686.7	879.4	1141.5	1455.9	1466.5	1527.9	1535.4	1342.2	1019.7
62.5°	244.0	240.0	319.0	460.8	650.0	878.9	898.5	961.4	973.0	773.7	511.6
65°	99.1	104.6	144.4	231.9	343.6	400.5	428.1	448.8	487.0	319.5	188.7
67.5°	65.4	64.9	85.0	132.3	185.1	178.6	178.6	188.7	174.6	130.3	81.5
70°	46.8	48.3	60.9	91.6	115.2	85.5	82.0	78.5	89.0	86.0	65.9
72.5°	30.7	32.7	40.7	54.8	59.9	46.8	46.8	56.3	73.5	69.4	53.8
75°	20.1	20.6	25.2	31.7	29.7	24.1	26.7	37.7	53.3	51.3	38.2
77.5°	13.6	14.1	17.1	20.6	16.6	13.6	14.6	19.1	26.2	26.2	20.1
80°	5.0	5.5	7.0	6.5	7.5	9.6	10.6	13.1	15.6	15.6	13.6
82.5°	0.0	0.5	1.5	3.5	5.5	7.5	8.6	10.1	11.6	13.1	12.6
85°	0.0	0.5	1.5	2.5	4.0	4.5	5.0	3.5	3.0	3.0	2.5
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	527.7	527.2	527.2	525.7	528.7	527.2	528.2	527.7	521.2	526.2	522.7
5°	533.3	536.8	531.3	530.2	526.2	527.7	527.7	522.7	527.2	526.7	525.7
7.5°	547.4	541.3	535.3	529.2	528.2	526.7	521.2	519.2	522.7	518.7	524.7
10°	553.4	554.4	545.3	537.3	529.7	519.2	511.6	507.1	501.6	507.6	511.1
12.5°	581.1	571.0	555.4	542.8	517.2	506.6	499.1	497.0	506.6	508.6	505.1
15°	590.6	589.1	569.0	540.8	514.2	501.6	503.1	499.1	500.1	495.0	496.0
17.5°	610.2	593.1	569.5	534.3	513.6	510.6	501.6	485.5	476.4	472.4	475.9
20°	631.9	615.3	581.1	536.8	518.2	510.1	480.4	460.8	442.2	432.1	432.7
22.5°	651.0	630.4	576.0	537.8	522.2	489.0	453.3	414.5	391.4	375.8	376.3
25°	674.1	645.0	578.0	539.8	511.6	455.3	404.0	366.2	338.6	328.0	331.5
27.5°	687.2	654.0	589.1	544.3	484.0	407.5	352.2	316.9	300.8	295.8	295.3
30°	726.5	674.1	602.7	535.3	437.7	356.2	304.9	283.2	267.6	263.1	264.1
32.5°	784.8	710.9	620.3	511.6	390.4	310.4	274.2	258.1	243.5	234.9	233.9
35°	833.6	773.7	638.9	474.9	335.6	275.2	252.5	232.4	210.3	200.7	198.2
37.5°	926.7	844.7	634.9	419.6	283.2	249.0	229.4	204.8	185.6	172.6	171.0
40°	1050.4	927.7	615.3	352.2	244.5	225.9	204.8	181.1	157.5	146.4	145.4
42.5°	1200.9	1029.3	579.6	283.7	205.8	202.7	183.6	156.5	135.3	127.3	127.8
45°	1323.1	1116.3	543.3	227.9	177.1	180.1	163.5	137.8	123.3	116.7	116.7
47.5°	1431.8	1175.2	504.1	188.2	150.4	157.5	142.9	127.8	115.2	110.2	109.2
50°	1536.4	1235.1	464.8	152.4	128.3	135.3	133.8	121.7	111.7	105.6	106.2
52.5°	1601.8	1244.6	415.0	124.8	112.2	120.2	125.3	114.2	103.1	99.6	98.6
55°	1521.8	1121.4	322.0	102.6	95.1	105.6	115.2	102.6	94.1	88.0	87.5
56°	1414.2	1002.6	269.1	94.6	90.1	101.6	111.7	98.1	88.5	85.0	82.5
57.5°	1197.3	820.5	198.7	84.0	83.5	94.6	106.2	93.6	82.5	79.5	79.5
60°	746.6	461.8	120.2	70.4	72.4	84.0	95.6	83.5	73.5	73.5	75.0
62.5°	340.1	192.2	72.9	59.9	62.4	72.4	85.0	75.5	69.9	75.5	76.5
65°	115.7	83.0	52.8	47.8	49.3	59.9	72.9	76.5	76.0	79.5	81.5
67.5°	64.9	53.3	44.3	39.7	38.7	44.3	59.9	76.5	73.5	71.9	72.9
70°	54.8	45.3	39.2	35.2	33.7	35.7	46.3	57.9	51.8	50.3	49.3
72.5°	44.3	37.7	34.2	31.7	27.2	23.1	21.1	22.1	24.7	26.2	28.7
75°	31.2	28.7	28.7	25.7	19.6	14.6	11.6	9.6	6.5	4.5	5.0
77.5°	17.6	17.6	18.1	15.6	12.6	9.6	7.0	5.0	2.5	1.0	0.5
80°	12.1	13.1	14.1	12.6	10.6	8.6	6.0	3.5	1.5	0.0	0.0
82.5°	12.1	13.6	14.6	12.6	10.6	8.0	6.0	3.5	1.5	0.5	0.0
85°	2.5	3.0	3.5	4.0	6.0	6.0	4.5	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)