

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: P526330

Luminaire Tested: **GALN-SA1B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4840 lumens
Efficiency: N/A
Efficacy: 110.0 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

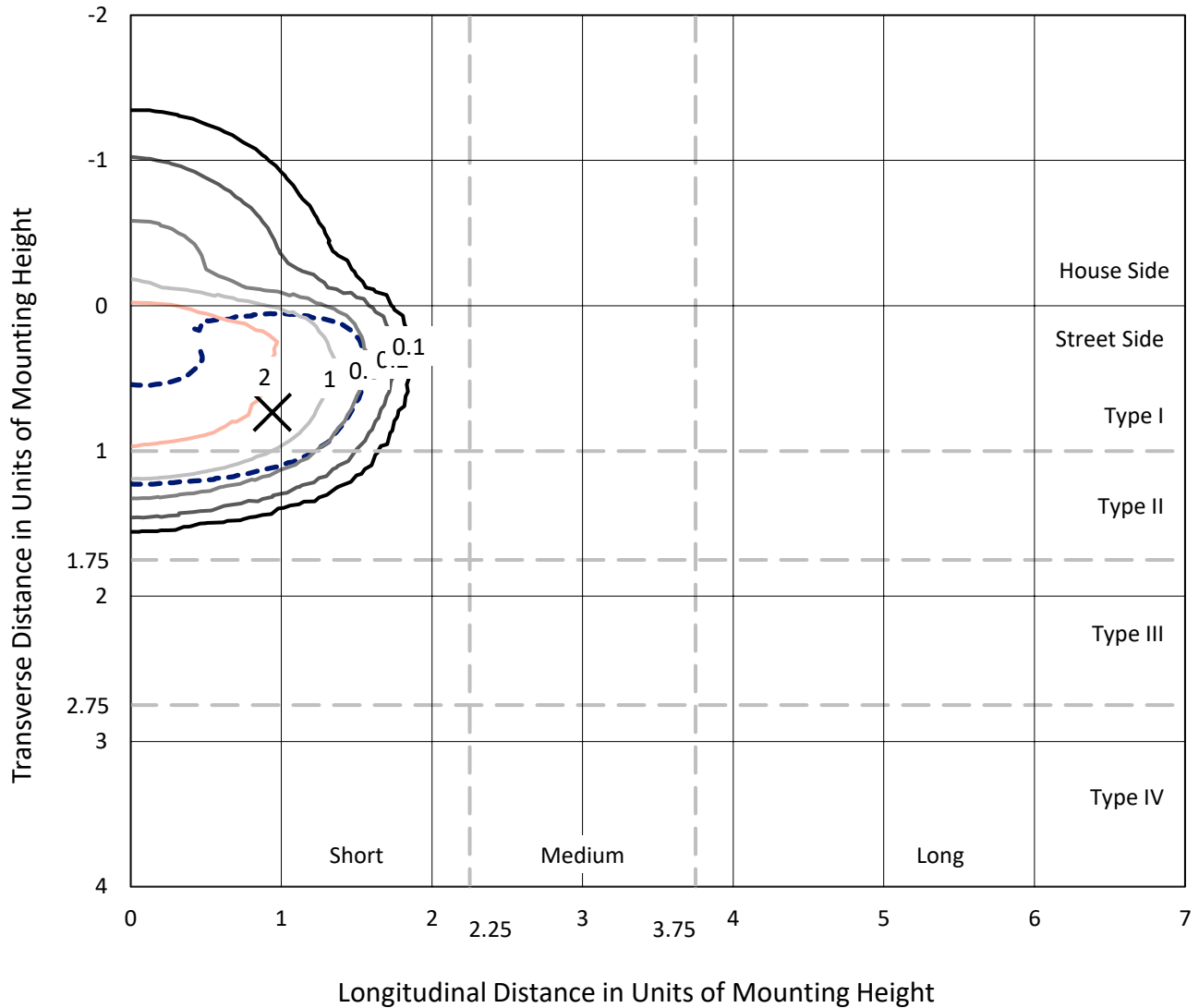
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

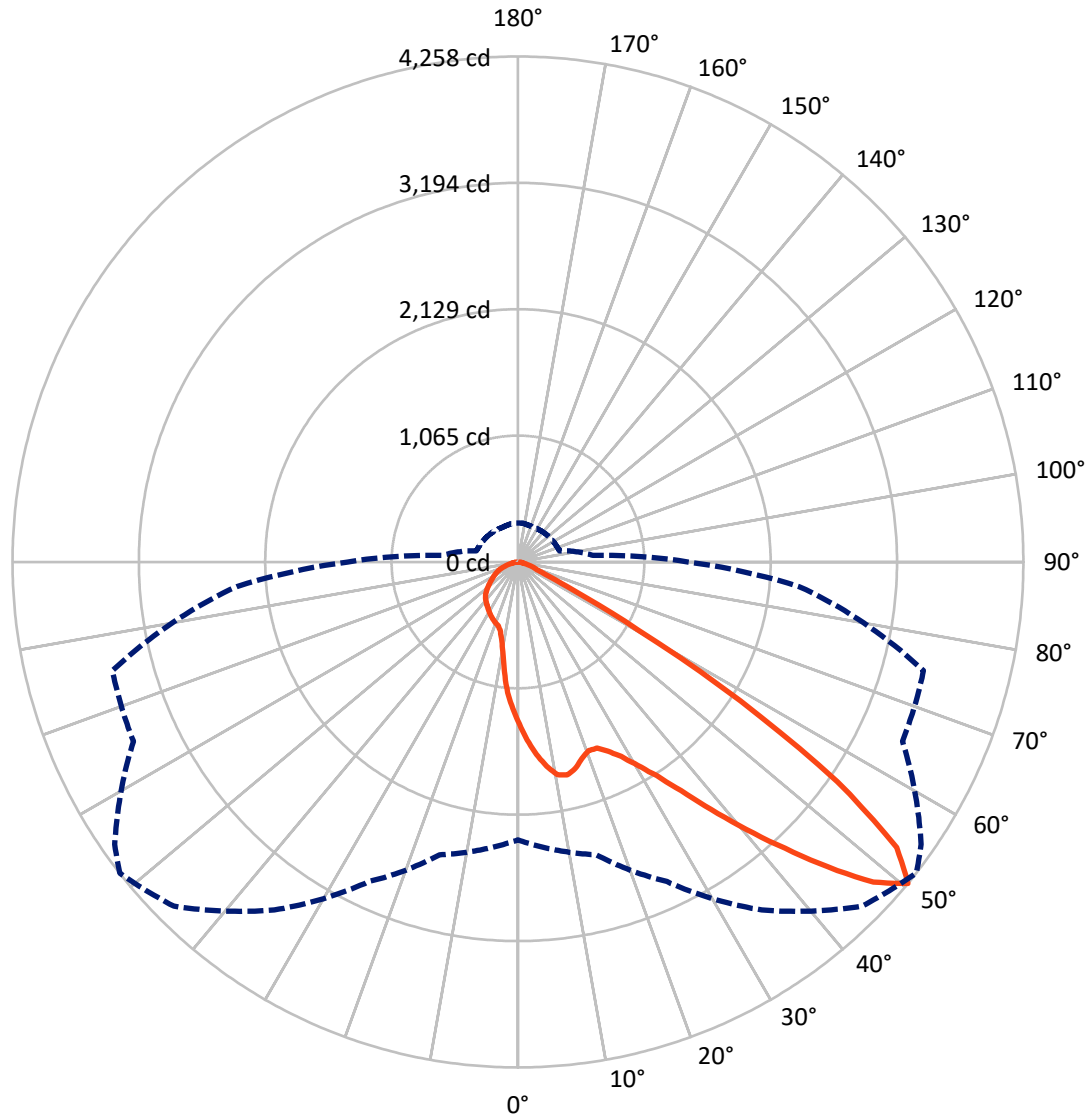
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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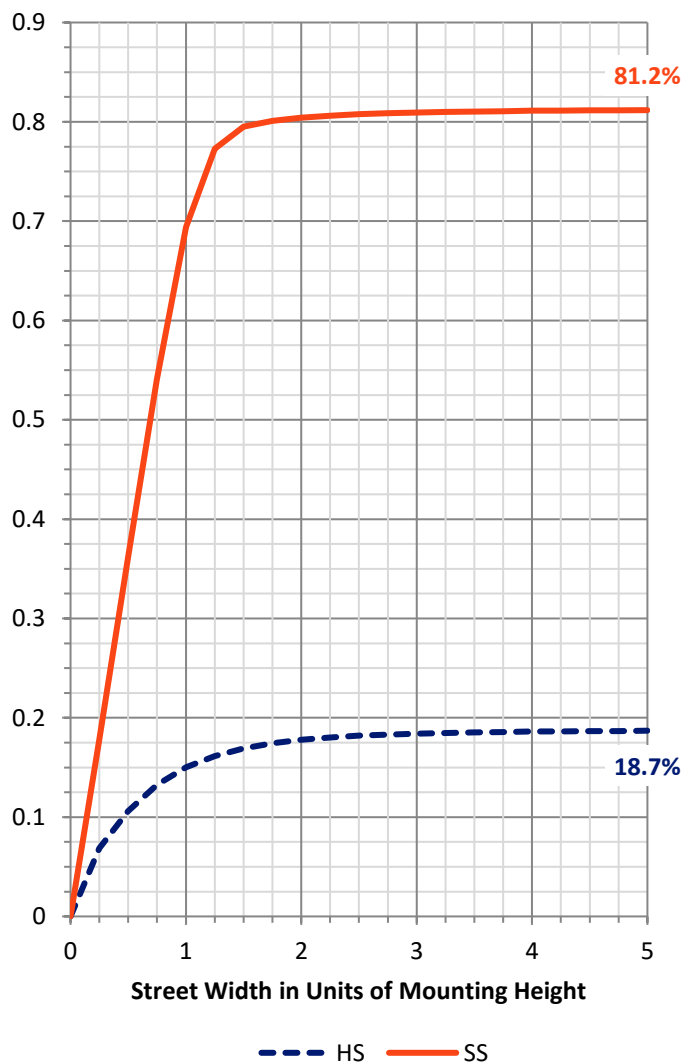
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.8	0.0	909.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3930.2	0.0	3930.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	4840.0	0.0	4840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	2.6
10°-20°	337.0	7.0
20°-30°	567.7	11.7
30°-40°	952.7	19.7
40°-50°	1457.4	30.1
50°-60°	1062.6	22.0
60°-70°	236.5	4.9
70°-80°	85.3	1.8
80°-90°	15.1	0.3
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°	4840.0	100.0
0°-180°	4840.0	100.0

Coefficient of Utilization



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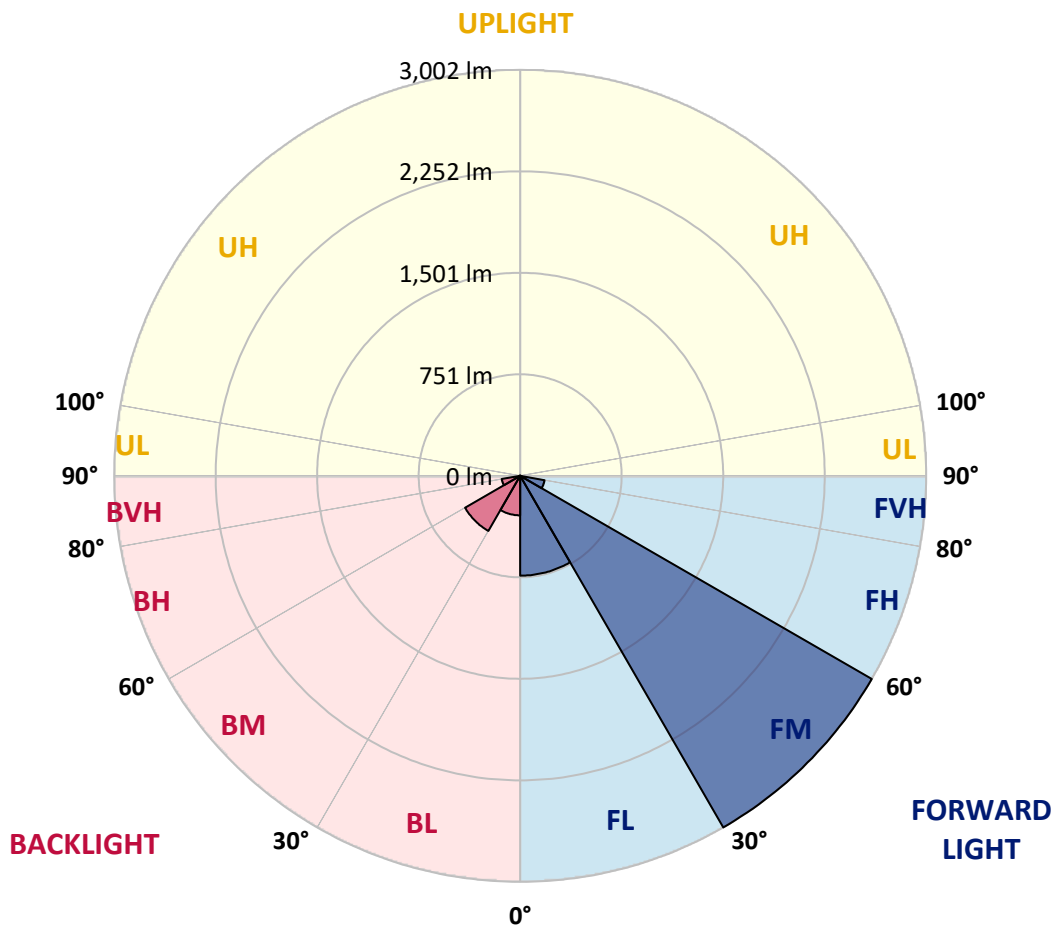
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.3	15.3			
FM (30°-60°)	3002.0	62.0			
FH (60°-80°)	183.2	3.8			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	292.2	6.0	B1/500		
BM (30°-60°)	470.6	9.7	B1/1000		
BH (60°-80°)	138.6	2.9	B1/500		G1/500
BVH (80°-90°)	8.3	0.2			G0/10
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°	52°	55°	65°	75°	85°
0°	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3
2.5°	1606.4	1575.5	1579.0	1556.8	1532.9	1525.9	1501.4	1478.1	1460.6	1423.2	1388.8
5°	1755.7	1746.4	1732.4	1714.9	1696.8	1652.5	1627.4	1598.2	1534.1	1476.3	1419.1
7.5°	1777.3	1775.5	1783.1	1783.1	1789.5	1772.6	1737.0	1716.6	1648.4	1554.5	1448.3
10°	1625.6	1630.9	1667.6	1715.5	1782.0	1828.0	1822.2	1816.9	1742.3	1614.0	1482.7
12.5°	1504.9	1493.2	1514.8	1555.6	1655.4	1766.8	1842.0	1842.6	1823.4	1709.0	1507.8
15°	1436.6	1444.8	1450.6	1469.9	1545.1	1674.0	1806.4	1845.5	1930.1	1776.1	1547.5
17.5°	1480.4	1453.0	1451.8	1456.5	1495.0	1591.8	1740.5	1807.6	1988.4	1862.4	1596.5
20°	1537.6	1537.0	1520.6	1514.8	1514.2	1600.5	1697.4	1788.4	2019.4	1974.4	1646.0
22.5°	1637.9	1637.9	1611.0	1598.2	1570.8	1641.4	1703.2	1765.0	2070.7	2051.4	1670.0
25°	1805.9	1778.5	1732.4	1700.9	1685.1	1710.2	1765.0	1820.4	2115.6	2133.1	1719.5
27.5°	1961.0	1917.9	1895.1	1840.9	1819.9	1805.3	1855.4	1911.4	2168.1	2260.2	1746.4
30°	2137.2	2129.6	2088.8	2018.8	1966.9	1940.0	1986.1	2041.5	2264.3	2390.3	1808.2
32.5°	2452.2	2383.3	2327.9	2242.2	2157.6	2100.4	2145.9	2182.7	2424.2	2526.2	1875.9
35°	2792.2	2770.0	2674.4	2519.8	2390.3	2339.0	2365.8	2393.2	2610.2	2733.9	1989.6
37.5°	3126.4	3096.1	3017.4	2887.3	2729.8	2625.4	2644.6	2676.7	2819.0	3013.9	2128.4
40°	3366.8	3329.4	3289.8	3270.5	3114.2	2971.3	2960.2	2968.4	3101.4	3276.3	2282.4
42.5°	3384.2	3430.3	3442.6	3520.2	3483.4	3366.2	3297.9	3299.7	3370.8	3535.9	2438.2
45°	3347.5	3304.9	3395.3	3607.1	3728.4	3783.2	3668.3	3653.7	3537.7	3686.4	2515.7
47.5°	2961.9	2973.6	3126.4	3461.2	3811.8	4056.8	4030.0	3981.5	3626.9	3681.1	2503.5
50°	2341.3	2411.9	2553.6	2970.7	3578.5	4099.9	4258.0	4146.0	3573.8	3536.5	2378.7
52.5°	1559.1	1588.3	1681.6	2220.0	2877.4	3664.8	3995.5	4021.2	3524.8	3346.9	2220.6
55°	694.1	691.8	823.0	1159.6	1805.3	2788.7	3264.7	3421.0	3336.4	3153.9	2066.6
57.5°	294.0	303.9	357.6	501.0	887.8	1682.8	2211.8	2348.9	2565.9	2589.8	1585.4
60°	198.9	200.1	214.7	250.8	371.6	790.4	1160.2	1324.7	1479.8	1469.3	841.1
62.5°	156.3	160.4	171.5	186.1	220.5	358.7	519.1	610.7	620.6	522.0	319.1
65°	133.6	134.2	145.2	157.5	172.7	208.8	250.2	254.9	257.8	248.5	234.5
67.5°	110.2	111.4	120.2	134.2	148.2	159.8	171.5	177.3	190.7	217.0	213.5
70°	87.5	89.2	96.8	108.5	121.3	128.3	142.9	148.2	160.4	180.8	189.0
72.5°	66.5	67.1	73.5	81.7	93.3	100.3	112.6	118.4	126.6	144.1	151.7
75°	47.8	49.6	54.2	58.3	60.1	64.7	76.4	82.8	94.5	102.1	102.7
77.5°	25.1	26.2	27.4	27.4	33.2	42.0	49.6	53.1	61.2	67.1	64.2
80°	9.9	10.5	13.4	18.1	23.3	30.3	35.6	37.3	44.3	47.8	49.6
82.5°	5.8	6.4	8.7	12.8	16.9	21.6	25.7	27.4	32.1	36.2	37.3
85°	2.9	3.5	5.2	8.2	11.1	13.4	12.8	12.2	12.2	11.7	12.2
87.5°	1.2	1.2	1.7	1.7	1.7	2.3	2.9	2.9	2.9	3.5	3.5
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°	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3
2.5°	1366.1	1342.7	1321.2	1281.5	1238.3	1226.1	1175.9	1157.8	1145.0	1129.8	1125.2
5°	1373.1	1342.2	1272.7	1192.8	1129.2	1047.6	993.9	936.2	894.2	883.7	880.8
7.5°	1387.6	1334.6	1215.0	1094.3	964.2	853.4	768.8	723.3	683.0	680.7	676.6
10°	1404.0	1311.8	1152.0	962.4	796.2	693.5	642.8	623.0	613.0	610.7	609.5
12.5°	1417.4	1307.2	1081.4	834.1	677.2	615.4	600.2	598.5	602.5	603.7	606.0
15°	1423.2	1288.5	996.3	719.2	603.1	580.4	586.8	593.8	596.7	604.3	598.5
17.5°	1434.3	1264.6	891.3	628.2	561.7	565.8	576.9	585.0	589.7	595.0	587.4
20°	1440.1	1243.0	792.7	574.0	547.1	554.7	569.9	576.3	582.1	584.5	575.7
22.5°	1434.9	1198.7	705.8	530.2	533.1	543.0	556.5	563.5	560.0	550.6	545.4
25°	1420.9	1136.2	615.4	502.2	513.3	530.8	541.3	536.0	529.6	524.4	522.6
27.5°	1420.3	1059.8	550.0	476.5	496.4	520.3	516.8	512.1	515.0	511.0	506.3
30°	1423.2	985.8	496.4	462.0	484.1	495.8	499.9	495.2	498.7	491.1	493.5
32.5°	1408.1	913.4	461.4	445.1	469.5	469.0	482.4	485.9	477.7	462.0	464.3
35°	1414.5	855.1	431.6	437.5	453.2	453.2	463.7	459.6	438.1	428.7	431.1
37.5°	1458.8	797.9	417.1	427.0	437.5	442.1	438.6	421.1	415.9	415.9	417.1
40°	1500.8	748.9	408.3	424.6	422.9	425.8	400.1	401.9	401.9	402.5	399.6
42.5°	1538.1	715.7	401.3	410.6	413.6	398.4	382.6	380.9	385.0	384.4	382.1
45°	1551.6	688.3	391.4	394.9	397.2	372.1	364.6	361.1	365.7	367.5	369.8
47.5°	1500.2	665.5	380.3	373.3	368.6	352.3	342.4	336.0	341.8	351.7	354.1
50°	1434.3	635.8	362.8	349.4	339.5	332.5	325.5	319.1	323.1	330.1	328.4
52.5°	1336.9	589.1	340.6	326.6	309.7	311.5	305.1	301.6	303.9	303.9	302.1
55°	1198.1	484.1	303.3	293.4	279.4	284.1	285.2	280.6	275.9	280.0	276.5
57.5°	817.8	341.8	270.6	270.6	256.6	263.1	262.5	251.4	240.3	241.5	239.1
60°	473.0	272.4	249.6	247.3	232.7	238.0	239.1	231.6	214.7	215.8	213.5
62.5°	268.9	232.7	218.2	214.7	211.7	216.4	216.4	206.5	191.9	193.1	190.7
65°	228.6	215.8	194.8	194.2	193.1	194.2	189.6	179.1	166.2	161.0	161.6
67.5°	207.7	199.5	179.1	173.8	170.3	169.7	161.0	151.1	145.2	140.6	140.0
70°	182.0	175.6	160.4	153.4	149.9	141.7	133.0	126.6	118.4	116.1	118.4
72.5°	144.1	143.5	137.7	130.1	122.5	116.1	108.5	99.7	92.2	90.4	86.3
75°	99.7	100.9	102.1	100.9	94.5	86.3	77.6	70.6	61.2	56.0	54.8
77.5°	65.3	67.1	68.8	66.5	62.4	54.8	49.0	40.2	33.2	29.2	28.6
80°	47.8	50.2	51.3	49.6	44.9	39.1	32.7	25.7	20.4	16.9	16.9
82.5°	36.7	39.1	40.2	37.3	32.7	28.0	23.3	18.1	14.0	11.1	10.5
85°	12.8	12.2	14.6	15.2	18.1	16.9	14.0	10.5	8.2	5.8	5.2
87.5°	3.5	3.5	4.1	4.1	3.5	2.9	2.9	2.9	2.3	1.7	1.7
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)