

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: P526278

Luminaire Tested: **GALN-SA1B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526278
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4345 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

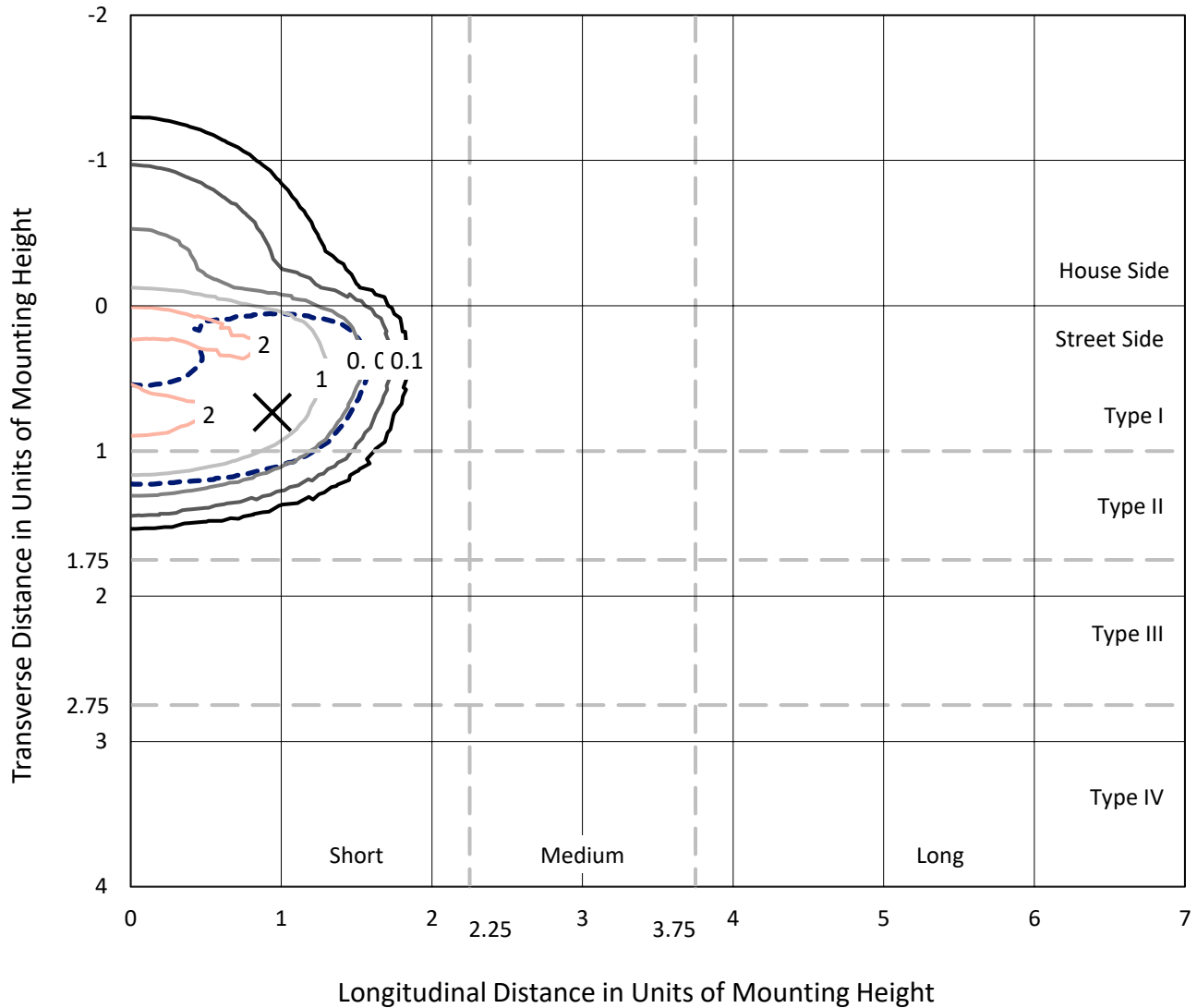
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

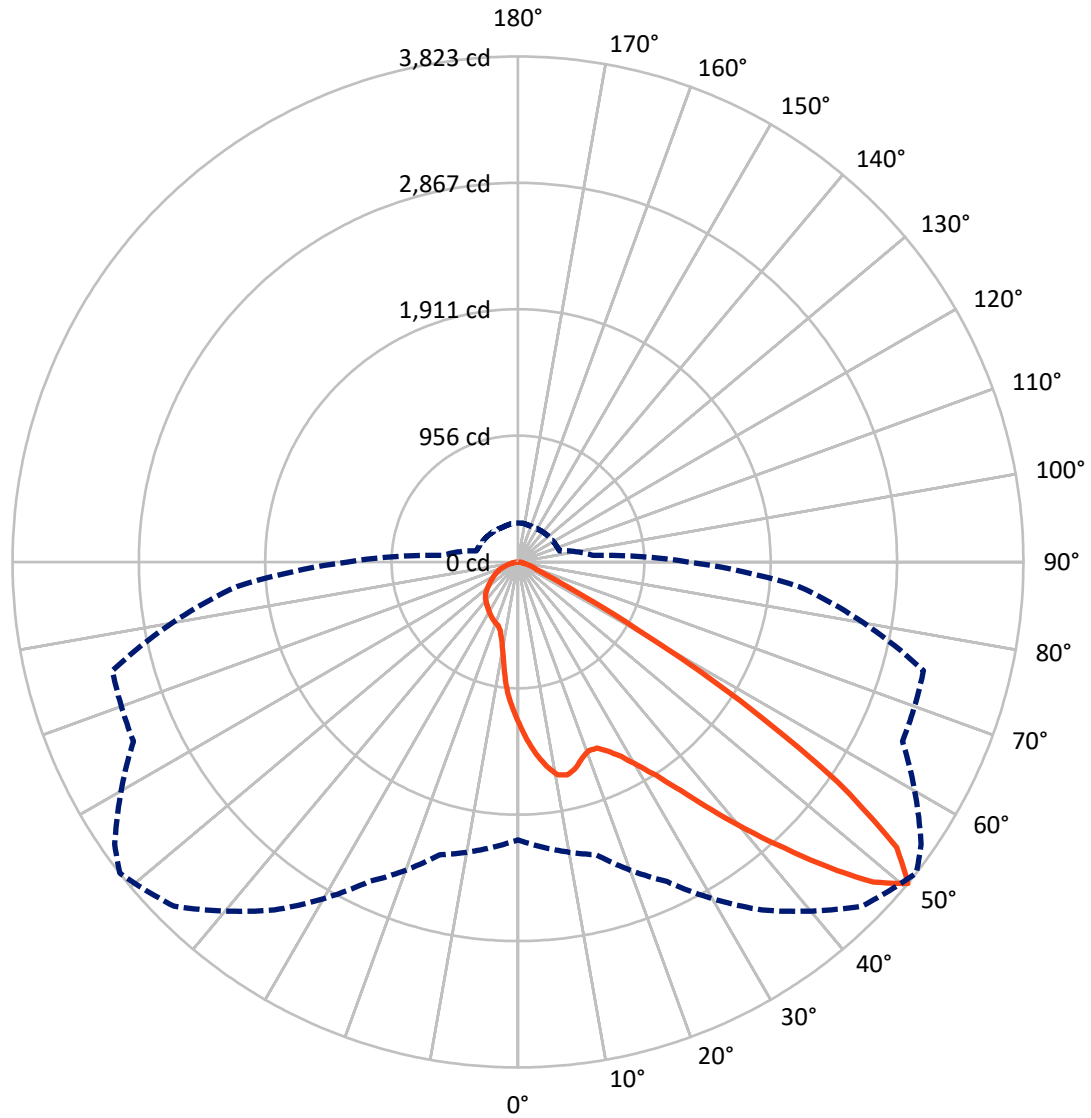
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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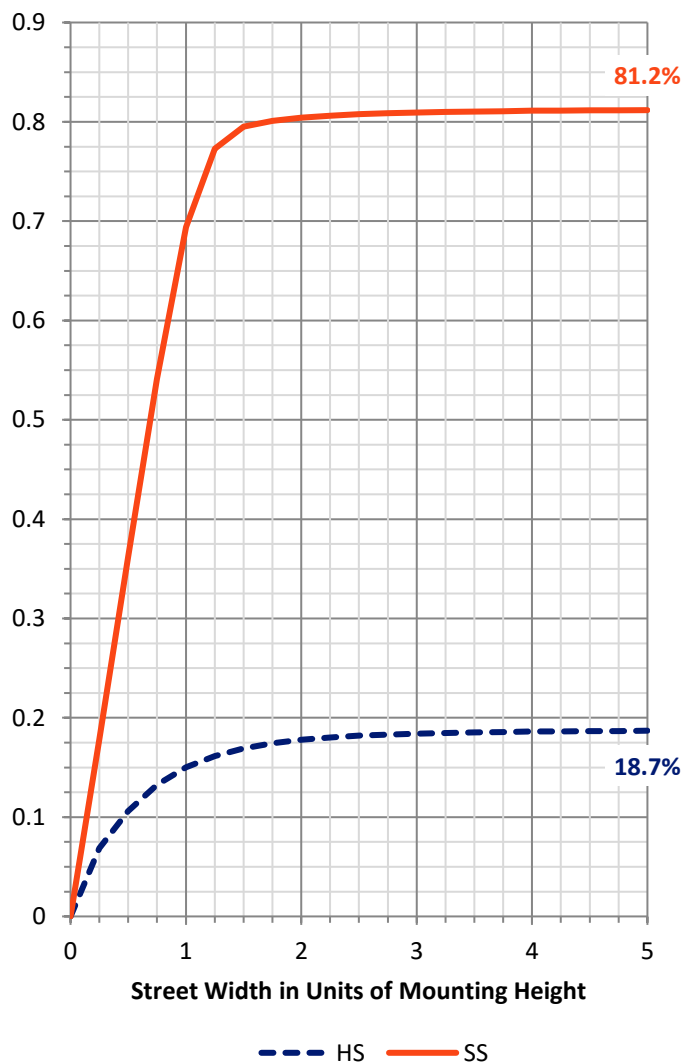
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	816.8	0.0	816.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3528.2	0.0	3528.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	4345.0	0.0	4345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	2.6
10°-20°	302.6	7.0
20°-30°	509.7	11.7
30°-40°	855.3	19.7
40°-50°	1308.3	30.1
50°-60°	953.9	22.0
60°-70°	212.3	4.9
70°-80°	76.6	1.8
80°-90°	13.5	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°	4345.0	100.0
0°-180°	4345.0	100.0

Coefficient of Utilization



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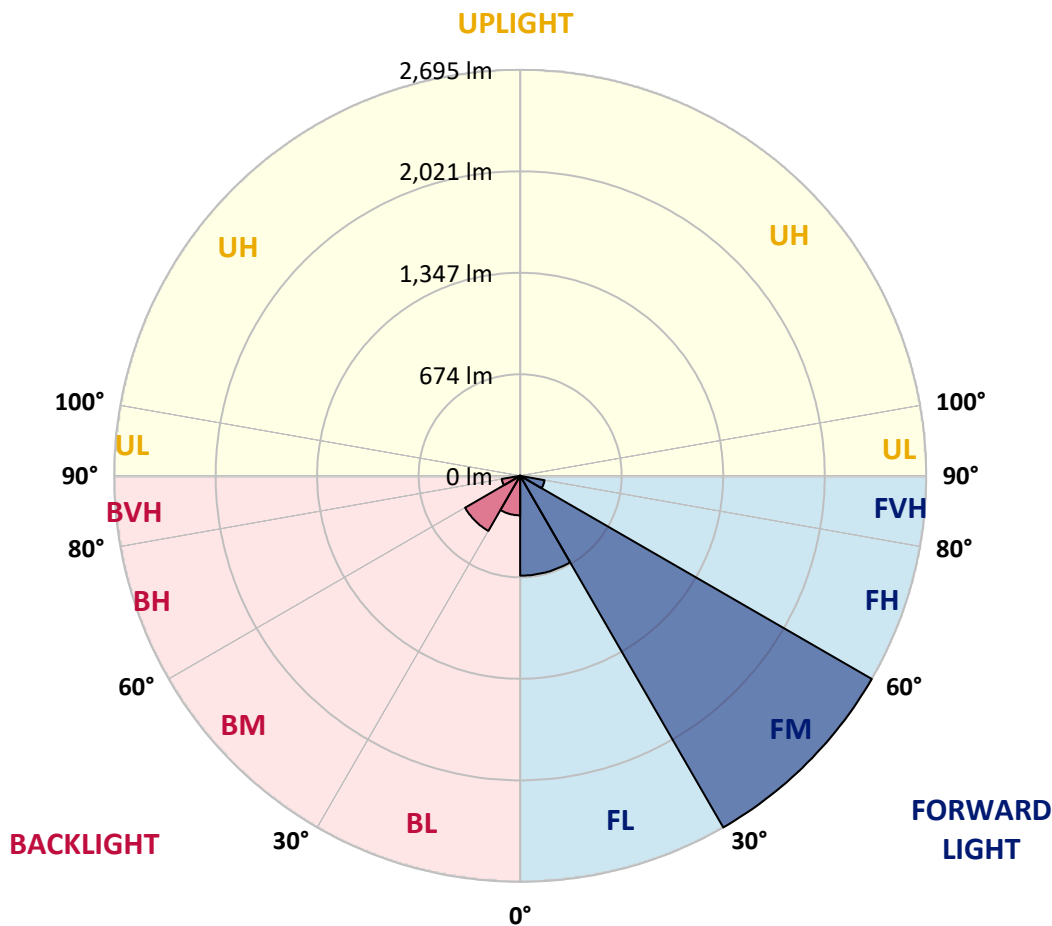
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.8	15.3			
FM (30°-60°)	2695.0	62.0			
FH (60°-80°)	164.4	3.8			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	262.4	6.0	B1/500		
BM (30°-60°)	422.5	9.7	B1/1000		
BH (60°-80°)	124.4	2.9	B1/500		G1/500
BVH (80°-90°)	7.5	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°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1442.1	1414.3	1417.5	1397.6	1376.1	1369.8	1347.8	1326.9	1311.2	1277.7	1246.8
5°	1576.1	1567.8	1555.2	1539.5	1523.3	1483.5	1460.9	1434.8	1377.2	1325.3	1274.0
7.5°	1595.5	1593.9	1600.8	1600.8	1606.5	1591.3	1559.4	1541.1	1479.8	1395.5	1300.2
10°	1459.4	1464.1	1497.1	1540.0	1599.7	1641.1	1635.8	1631.1	1564.1	1448.9	1331.1
12.5°	1351.0	1340.5	1359.9	1396.5	1486.1	1586.1	1653.6	1654.2	1636.9	1534.3	1353.6
15°	1289.7	1297.0	1302.3	1319.6	1387.1	1502.8	1621.7	1656.8	1732.7	1594.5	1389.2
17.5°	1329.0	1304.4	1303.3	1307.5	1342.1	1429.0	1562.5	1622.7	1785.1	1672.0	1433.2
20°	1380.3	1379.8	1365.1	1359.9	1359.4	1436.9	1523.8	1605.5	1812.8	1772.5	1477.7
22.5°	1470.4	1470.4	1446.3	1434.8	1410.2	1473.5	1529.0	1584.5	1858.9	1841.6	1499.2
25°	1621.2	1596.6	1555.2	1526.9	1512.8	1535.3	1584.5	1634.3	1899.2	1914.9	1543.7
27.5°	1760.5	1721.7	1701.3	1652.6	1633.7	1620.7	1665.7	1716.0	1946.4	2029.1	1567.8
30°	1918.6	1911.8	1875.1	1812.3	1765.7	1741.6	1783.0	1832.7	2032.8	2145.9	1623.3
32.5°	2201.4	2139.6	2089.8	2012.9	1936.9	1885.6	1926.5	1959.4	2176.2	2267.9	1684.0
35°	2506.6	2486.7	2400.9	2262.1	2145.9	2099.8	2123.9	2148.5	2343.3	2454.3	1786.1
37.5°	2806.7	2779.5	2708.8	2592.0	2450.6	2356.9	2374.2	2403.0	2530.7	2705.6	1910.7
40°	3022.4	2988.9	2953.3	2936.0	2795.7	2667.4	2657.5	2664.8	2784.2	2941.3	2049.0
42.5°	3038.1	3079.5	3090.5	3160.1	3127.2	3021.9	2960.6	2962.2	3026.1	3174.3	2188.8
45°	3005.1	2966.9	3048.1	3238.2	3347.1	3396.3	3293.1	3280.1	3175.8	3309.4	2258.4
47.5°	2659.0	2669.5	2806.7	3107.3	3422.0	3641.9	3617.8	3574.3	3256.0	3304.7	2247.4
50°	2101.9	2165.2	2292.5	2666.9	3212.5	3680.6	3822.5	3722.0	3208.3	3174.8	2135.4
52.5°	1399.7	1425.9	1509.6	1993.0	2583.1	3290.0	3586.9	3609.9	3164.3	3004.6	1993.5
55°	623.1	621.0	738.8	1041.0	1620.7	2503.5	2930.8	3071.1	2995.2	2831.3	1855.2
57.5°	263.9	272.8	321.0	449.8	797.0	1510.7	1985.6	2108.7	2303.5	2324.9	1423.2
60°	178.6	179.6	192.7	225.2	333.6	709.5	1041.5	1189.2	1328.5	1319.0	755.1
62.5°	140.3	144.0	153.9	167.0	197.9	322.0	466.0	548.2	557.1	468.7	286.4
65°	119.9	120.4	130.4	141.4	155.0	187.5	224.6	228.8	231.4	223.1	210.5
67.5°	99.0	100.0	107.9	120.4	133.0	143.5	153.9	159.2	171.2	194.8	191.7
70°	78.5	80.1	86.9	97.4	108.9	115.2	128.3	133.0	144.0	162.3	169.7
72.5°	59.7	60.2	66.0	73.3	83.8	90.1	101.1	106.3	113.6	129.3	136.1
75°	42.9	44.5	48.7	52.4	53.9	58.1	68.6	74.4	84.8	91.6	92.2
77.5°	22.5	23.6	24.6	24.6	29.8	37.7	44.5	47.7	55.0	60.2	57.6
80°	8.9	9.4	12.0	16.2	20.9	27.2	31.9	33.5	39.8	42.9	44.5
82.5°	5.2	5.8	7.9	11.5	15.2	19.4	23.0	24.6	28.8	32.5	33.5
85°	2.6	3.1	4.7	7.3	9.9	12.0	11.5	11.0	11.0	10.5	11.0
87.5°	1.0	1.0	1.6	1.6	1.6	2.1	2.6	2.6	2.6	3.1	3.1
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°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1226.4	1205.4	1186.0	1150.4	1111.7	1100.7	1055.6	1039.4	1027.9	1014.3	1010.1
5°	1232.6	1204.9	1142.6	1070.8	1013.8	940.4	892.3	840.4	802.7	793.3	790.7
7.5°	1245.7	1198.1	1090.7	982.3	865.6	766.1	690.2	649.3	613.2	611.1	607.4
10°	1260.4	1177.7	1034.2	864.0	714.8	622.6	577.0	559.2	550.3	548.2	547.2
12.5°	1272.4	1173.5	970.8	748.8	607.9	552.4	538.8	537.3	540.9	542.0	544.1
15°	1277.7	1156.7	894.4	645.6	541.4	521.0	526.8	533.1	535.7	542.5	537.3
17.5°	1287.6	1135.2	800.1	564.0	504.3	507.9	517.9	525.2	529.4	534.1	527.3
20°	1292.9	1115.9	711.6	515.3	491.2	498.0	511.6	517.4	522.6	524.7	516.8
22.5°	1288.1	1076.1	633.6	476.0	478.6	487.5	499.5	505.8	502.7	494.3	489.6
25°	1275.6	1020.0	552.4	450.9	460.8	476.5	485.9	481.2	475.5	470.7	469.2
27.5°	1275.1	951.4	493.8	427.8	445.6	467.1	463.9	459.8	462.4	458.7	454.5
30°	1277.7	884.9	445.6	414.7	434.6	445.1	448.8	444.6	447.7	440.9	443.0
32.5°	1264.1	820.0	414.2	399.5	421.5	421.0	433.0	436.2	428.9	414.7	416.8
35°	1269.8	767.6	387.5	392.7	406.9	406.9	416.3	412.6	393.3	384.9	387.0
37.5°	1309.6	716.3	374.4	383.3	392.7	396.9	393.8	378.1	373.4	373.4	374.4
40°	1347.3	672.3	366.5	381.2	379.6	382.3	359.2	360.8	360.8	361.3	358.7
42.5°	1380.8	642.5	360.3	368.6	371.3	357.6	343.5	341.9	345.6	345.1	343.0
45°	1392.9	617.9	351.4	354.5	356.6	334.1	327.3	324.1	328.3	329.9	332.0
47.5°	1346.8	597.5	341.4	335.1	330.9	316.3	307.4	301.6	306.9	315.8	317.8
50°	1287.6	570.8	325.7	313.7	304.8	298.5	292.2	286.4	290.1	296.4	294.8
52.5°	1200.2	528.9	305.8	293.2	278.1	279.6	273.9	270.7	272.8	272.8	271.2
55°	1075.5	434.6	272.3	263.4	250.8	255.0	256.1	251.9	247.7	251.3	248.2
57.5°	734.1	306.9	243.0	243.0	230.4	236.2	235.6	225.7	215.7	216.8	214.7
60°	424.7	244.5	224.1	222.0	208.9	213.6	214.7	207.9	192.7	193.7	191.7
62.5°	241.4	208.9	195.8	192.7	190.1	194.3	194.3	185.4	172.3	173.3	171.2
65°	205.3	193.7	174.9	174.4	173.3	174.4	170.2	160.8	149.2	144.5	145.0
67.5°	186.4	179.1	160.8	156.0	152.9	152.4	144.5	135.6	130.4	126.2	125.7
70°	163.4	157.6	144.0	137.7	134.6	127.2	119.4	113.6	106.3	104.2	106.3
72.5°	129.3	128.8	123.6	116.8	110.0	104.2	97.4	89.5	82.7	81.2	77.5
75°	89.5	90.6	91.6	90.6	84.8	77.5	69.6	63.4	55.0	50.3	49.2
77.5°	58.6	60.2	61.8	59.7	56.0	49.2	44.0	36.1	29.8	26.2	25.7
80°	42.9	45.0	46.1	44.5	40.3	35.1	29.3	23.0	18.3	15.2	15.2
82.5°	33.0	35.1	36.1	33.5	29.3	25.1	20.9	16.2	12.6	9.9	9.4
85°	11.5	11.0	13.1	13.6	16.2	15.2	12.6	9.4	7.3	5.2	4.7
87.5°	3.1	3.1	3.7	3.7	3.1	2.6	2.6	2.6	2.1	1.6	1.6
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)