

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: P269164

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12120.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

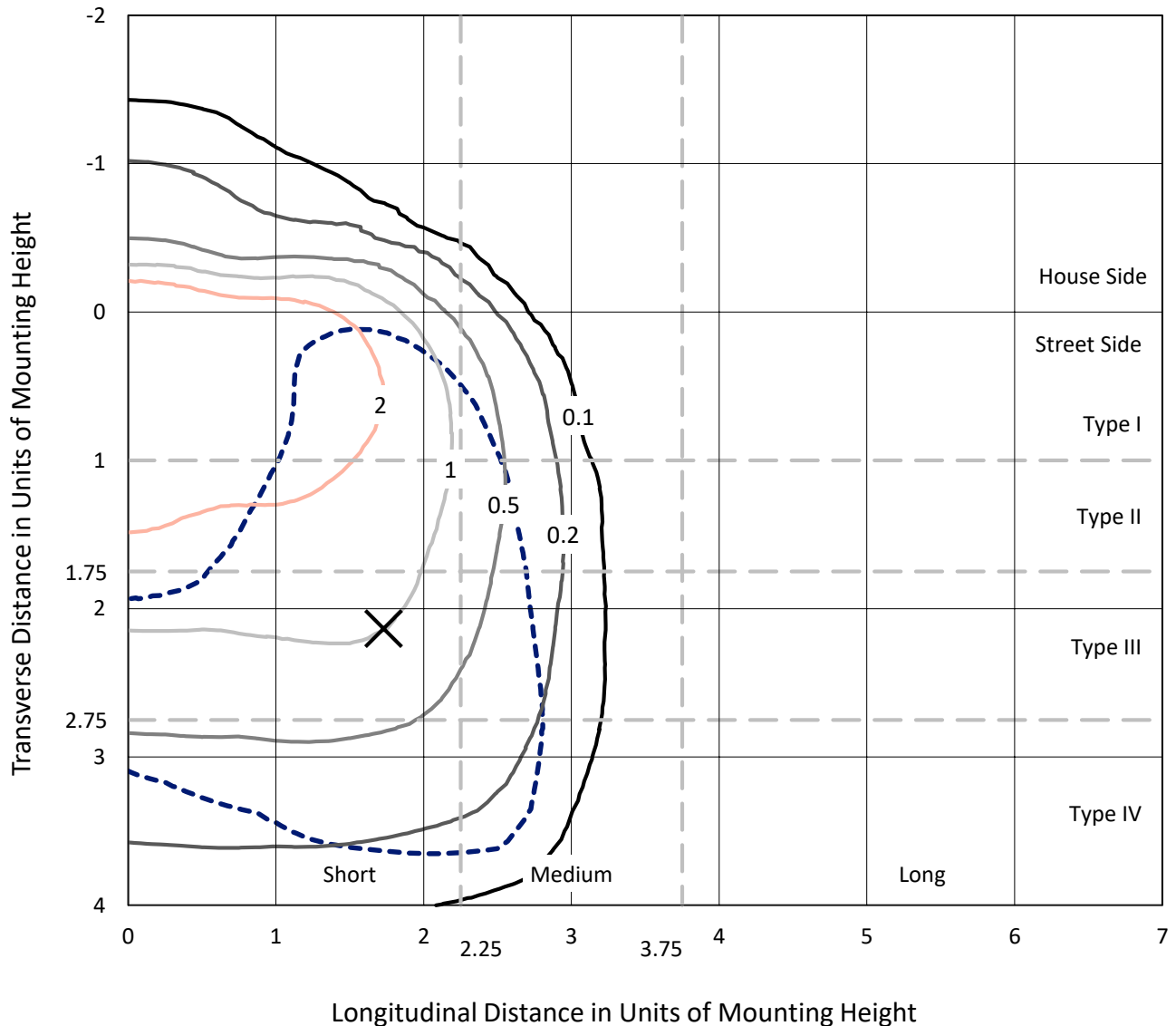
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

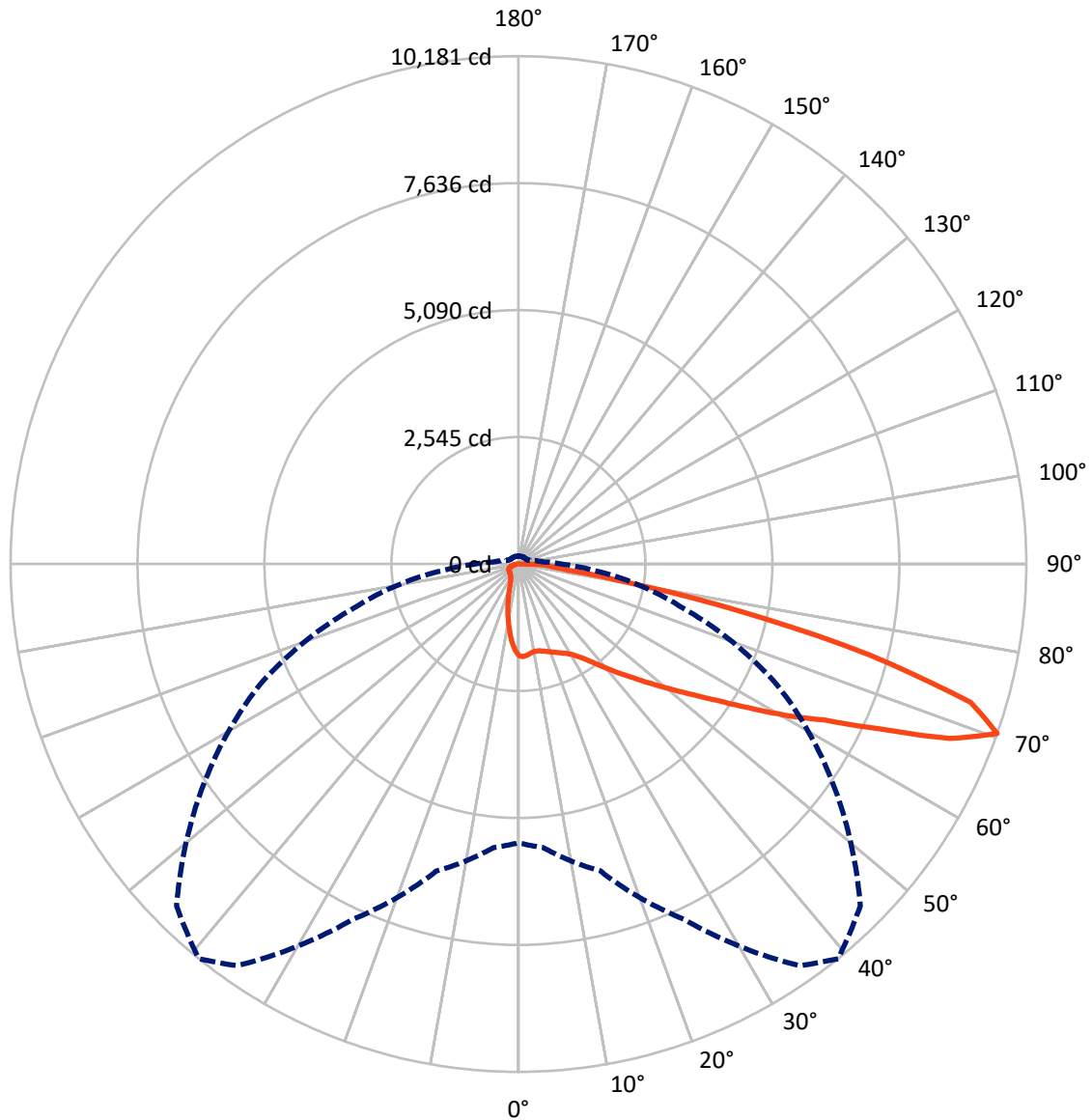
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.5	0.0	1378.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10741.8	0.0	10741.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	12120.3	0.0	12120.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.3
10°-20°	394.7	3.3
20°-30°	614.6	5.1
30°-40°	957.4	7.9
40°-50°	1607.3	13.3
50°-60°	2553.4	21.1
60°-70°	3405.9	28.1
70°-80°	2056.8	17.0
80°-90°	372.2	3.1
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°	12120.3	100.0
0°-180°	12120.3	100.0

Coefficient of Utilization



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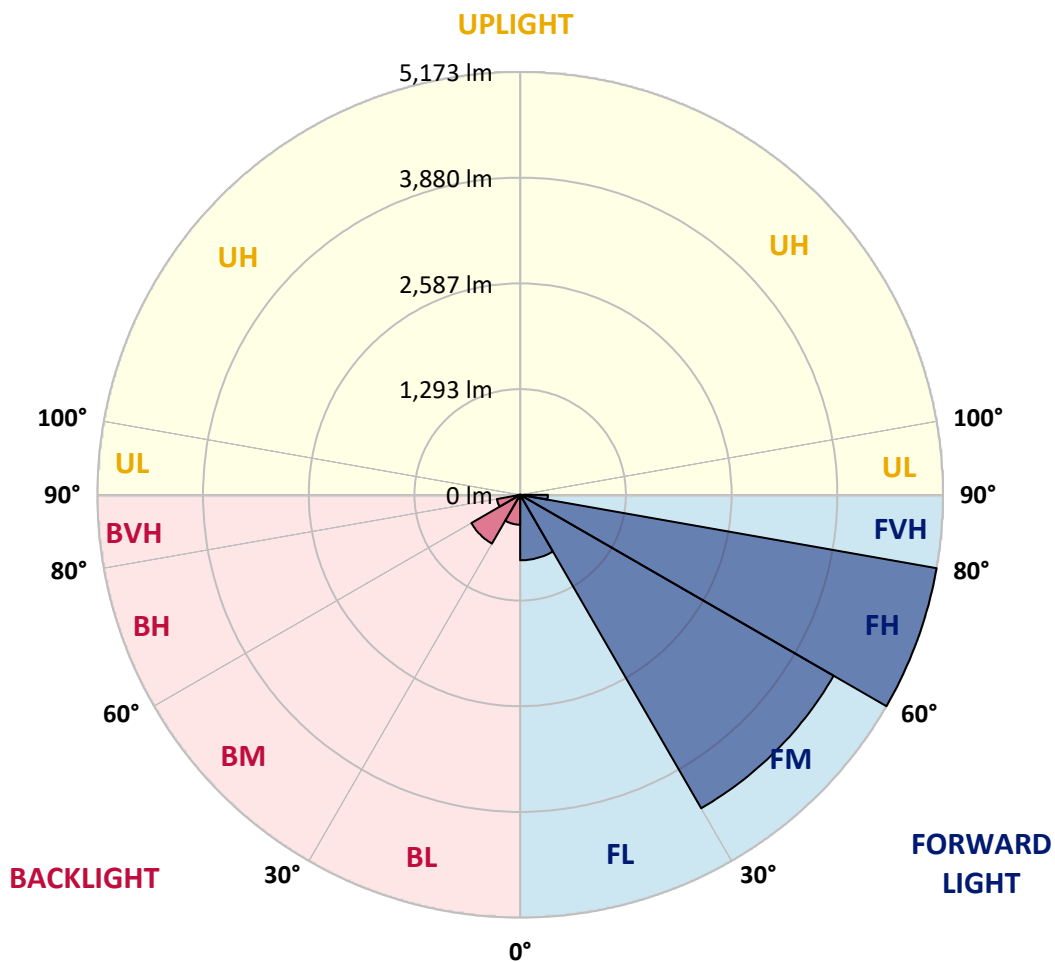
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.5	6.6			
FM	(30°-60°)	4428.3	36.5			
FH	(60°-80°)	5173.3	42.7			G3/7500
FVH	(80°-90°)	338.7	2.8			G3/500
BL	(0°-30°)	365.7	3.0	B1/500		
BM	(30°-60°)	689.9	5.7	B1/1000		
BH	(60°-80°)	289.4	2.4	B1/500		G1/500
BVH	(80°-90°)	33.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1875.8	1875.2	1870.2	1866.6	1863.4	1862.2	1864.7	1855.4	1847.5	1837.7	1827.2
5°	1861.6	1861.0	1853.1	1845.6	1838.2	1835.7	1835.1	1818.4	1808.6	1793.8	1774.2
7.5°	1846.1	1843.1	1832.6	1820.3	1807.4	1801.2	1795.1	1773.6	1762.5	1747.7	1724.8
10°	1830.1	1826.6	1816.6	1804.3	1791.9	1782.7	1772.3	1751.3	1739.6	1728.5	1702.0
12.5°	1813.6	1810.4	1808.0	1802.4	1793.8	1785.8	1777.8	1759.9	1747.7	1734.6	1703.8
15°	1811.2	1809.8	1815.5	1819.1	1814.1	1809.2	1800.7	1785.2	1772.3	1759.3	1719.3
17.5°	1830.8	1830.1	1844.4	1854.2	1851.8	1843.1	1831.5	1814.1	1803.6	1792.6	1742.7
20°	1874.0	1877.0	1894.3	1907.2	1894.9	1882.6	1863.4	1839.4	1833.9	1828.9	1766.7
22.5°	1955.3	1958.3	1970.7	1975.6	1943.6	1925.6	1899.1	1868.5	1864.7	1868.5	1795.7
25°	2082.2	2079.1	2077.3	2058.8	2000.3	1972.6	1938.6	1906.7	1908.4	1925.1	1836.3
27.5°	2250.4	2233.8	2207.9	2152.5	2059.5	2028.6	1987.3	1957.8	1969.4	2001.6	1897.4
30°	2424.9	2406.4	2346.6	2256.1	2137.1	2103.2	2056.9	2023.7	2054.6	2105.0	1978.6
32.5°	2586.3	2583.9	2496.3	2379.9	2244.2	2214.7	2168.5	2130.9	2180.8	2257.9	2100.7
35°	2762.6	2768.0	2663.4	2523.5	2389.1	2358.3	2325.1	2296.6	2363.3	2469.3	2277.6
37.5°	2951.1	2962.3	2838.4	2680.6	2554.3	2541.3	2521.6	2509.2	2612.2	2758.9	2524.6
40°	3203.1	3192.0	3020.1	2858.0	2757.0	2756.4	2750.3	2765.1	2936.3	3137.2	2842.1
42.5°	3473.0	3440.4	3213.0	3048.5	2979.5	3000.3	3012.7	3073.1	3326.5	3597.0	3229.0
45°	3763.9	3690.5	3413.3	3250.0	3226.5	3270.9	3312.8	3444.1	3785.5	4120.0	3653.0
47.5°	3996.2	3925.4	3620.3	3461.3	3512.6	3579.7	3660.4	3868.0	4299.4	4660.5	4071.4
50°	4179.3	4133.0	3829.3	3707.8	3827.4	3931.0	4062.8	4348.1	4834.3	5186.8	4458.9
52.5°	4356.7	4322.3	4039.9	3960.4	4197.2	4340.2	4519.5	4863.2	5382.7	5704.3	4785.0
55°	4516.9	4492.2	4266.8	4275.4	4632.2	4818.2	5043.9	5449.8	5980.5	6166.0	5061.1
57.5°	4697.4	4666.1	4525.7	4670.4	5191.0	5432.7	5725.9	6109.3	6541.3	6576.3	5271.3
60°	4879.2	4852.1	4812.7	5126.4	5901.0	6154.8	6432.9	6748.2	7110.1	6894.9	5258.9
62.5°	5037.1	5040.1	5109.7	5605.2	6596.1	6890.0	7228.9	7540.7	7624.5	6950.5	4870.0
65°	5304.5	5353.2	5560.8	6283.0	7574.7	7967.7	8383.7	8333.8	7766.9	6432.1	4036.3
67.5°	5622.4	5708.1	6129.0	7186.4	8811.5	9333.4	9494.1	8513.1	7197.0	5228.7	2877.1
70°	5590.4	5708.1	6374.3	7860.0	9830.6	10180.8	9692.6	7704.7	5714.8	3415.7	1528.2
72.5°	4964.4	5132.6	5874.5	7551.2	9509.5	9478.7	8414.6	5743.9	3395.5	1371.7	597.2
75°	3783.7	3953.7	4592.1	5965.6	7516.1	7257.2	5970.7	3173.0	1288.4	544.7	376.5
77.5°	2176.6	2308.4	2801.4	3658.5	4768.4	4502.8	3323.3	1411.1	627.3	379.7	293.9
80°	1215.1	1288.4	1588.1	1856.1	2336.8	2142.0	1487.0	876.8	468.3	275.5	226.7
82.5°	960.6	1026.0	1284.1	1170.9	1067.2	984.7	854.1	780.7	374.1	173.8	135.6
85°	839.2	901.4	1086.9	921.9	729.1	668.6	693.9	768.4	290.8	104.7	115.8
87.5°	777.8	860.8	968.7	710.5	567.5	502.8	640.2	842.4	93.7	65.3	46.8
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°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1817.9	1808.0	1791.9	1777.8	1755.6	1743.9	1730.9	1721.7	1714.3	1708.1	1718.1
5°	1761.8	1743.3	1709.5	1673.1	1630.0	1596.0	1567.7	1541.2	1522.6	1510.4	1519.0
7.5°	1708.8	1678.7	1625.7	1559.6	1485.7	1422.8	1371.2	1325.4	1294.1	1273.7	1281.7
10°	1678.7	1641.1	1559.1	1455.6	1346.5	1248.5	1167.2	1096.9	1048.2	1020.5	1024.7
12.5°	1671.1	1622.5	1509.2	1366.9	1217.7	1081.5	966.8	869.5	801.1	765.4	766.6
15°	1676.7	1614.6	1462.4	1281.7	1093.1	921.2	778.3	660.0	580.5	539.8	539.3
17.5°	1685.9	1608.3	1413.0	1190.0	966.8	767.2	607.7	491.7	421.6	388.8	386.5
20°	1695.9	1598.5	1357.6	1090.7	835.7	624.2	475.7	385.2	340.7	322.9	321.7
22.5°	1710.1	1589.9	1300.2	986.0	706.7	508.4	391.3	330.2	307.0	297.7	296.4
25°	1732.8	1585.6	1239.2	876.8	590.9	425.2	340.7	303.2	289.7	283.4	282.8
27.5°	1771.1	1591.6	1181.9	770.8	496.7	369.2	312.4	289.7	279.7	274.3	273.7
30°	1820.3	1610.8	1121.5	670.5	423.3	330.9	295.2	280.5	272.4	266.8	266.8
32.5°	1902.3	1642.9	1058.1	583.5	371.0	304.4	282.2	272.4	265.5	261.2	260.7
35°	2023.1	1703.2	998.9	511.5	333.5	285.3	271.2	263.7	258.8	256.3	256.3
37.5°	2198.7	1798.8	946.5	459.8	310.5	272.4	260.7	255.1	252.1	252.1	252.1
40°	2434.6	1930.6	904.1	425.2	297.7	263.2	252.7	248.3	246.4	247.2	247.2
42.5°	2726.1	2101.9	875.7	401.2	291.5	257.5	247.2	243.4	241.6	240.9	241.6
45°	3058.3	2296.6	872.6	383.2	285.3	254.0	243.4	239.7	236.1	233.6	233.6
47.5°	3381.2	2494.5	897.9	377.1	278.6	249.5	240.3	236.7	231.0	225.6	225.6
50°	3666.5	2662.8	931.7	379.7	276.0	243.4	235.4	233.6	224.9	218.7	218.2
52.5°	3893.3	2792.1	959.5	387.0	278.6	239.0	229.2	229.8	220.7	213.8	213.2
55°	4075.2	2877.1	952.1	394.4	284.0	236.7	223.7	224.9	217.5	210.7	210.7
57.5°	4154.7	2845.7	870.1	388.2	288.4	237.2	219.4	224.2	218.2	212.0	212.0
60°	3984.0	2566.5	716.7	361.1	282.8	235.4	217.5	226.7	226.2	219.9	219.4
62.5°	3467.5	2066.8	555.8	321.1	263.7	226.2	212.5	226.2	232.9	231.0	230.4
65°	2672.5	1472.1	424.5	277.9	238.0	210.7	199.7	212.0	221.3	223.7	223.0
67.5°	1734.6	902.2	327.3	237.2	208.9	192.9	183.1	188.6	190.4	190.4	189.3
70°	852.9	485.5	260.7	199.7	179.3	173.8	168.3	165.2	162.1	159.5	159.5
72.5°	420.9	317.3	214.4	168.8	154.7	152.3	150.9	147.3	144.7	141.8	140.6
75°	311.3	258.3	182.4	142.3	133.0	130.7	133.0	130.1	129.4	126.9	125.8
77.5°	255.7	219.9	157.2	122.0	114.1	109.8	113.4	114.1	114.7	110.9	109.8
80°	207.7	186.0	131.2	101.1	93.7	90.5	93.1	97.9	99.3	93.7	91.2
82.5°	149.7	152.3	106.0	79.0	72.8	70.2	75.2	81.3	82.6	74.6	72.8
85°	125.8	126.9	81.3	56.1	49.9	46.3	54.3	60.4	64.7	56.8	54.8
87.5°	52.5	74.6	46.8	31.4	27.8	24.1	28.9	32.0	38.8	35.8	35.2
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)