

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: P192031

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192031
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-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA 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: 11377 lumens
Efficiency: N/A
Efficacy: 118.5 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): 96
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

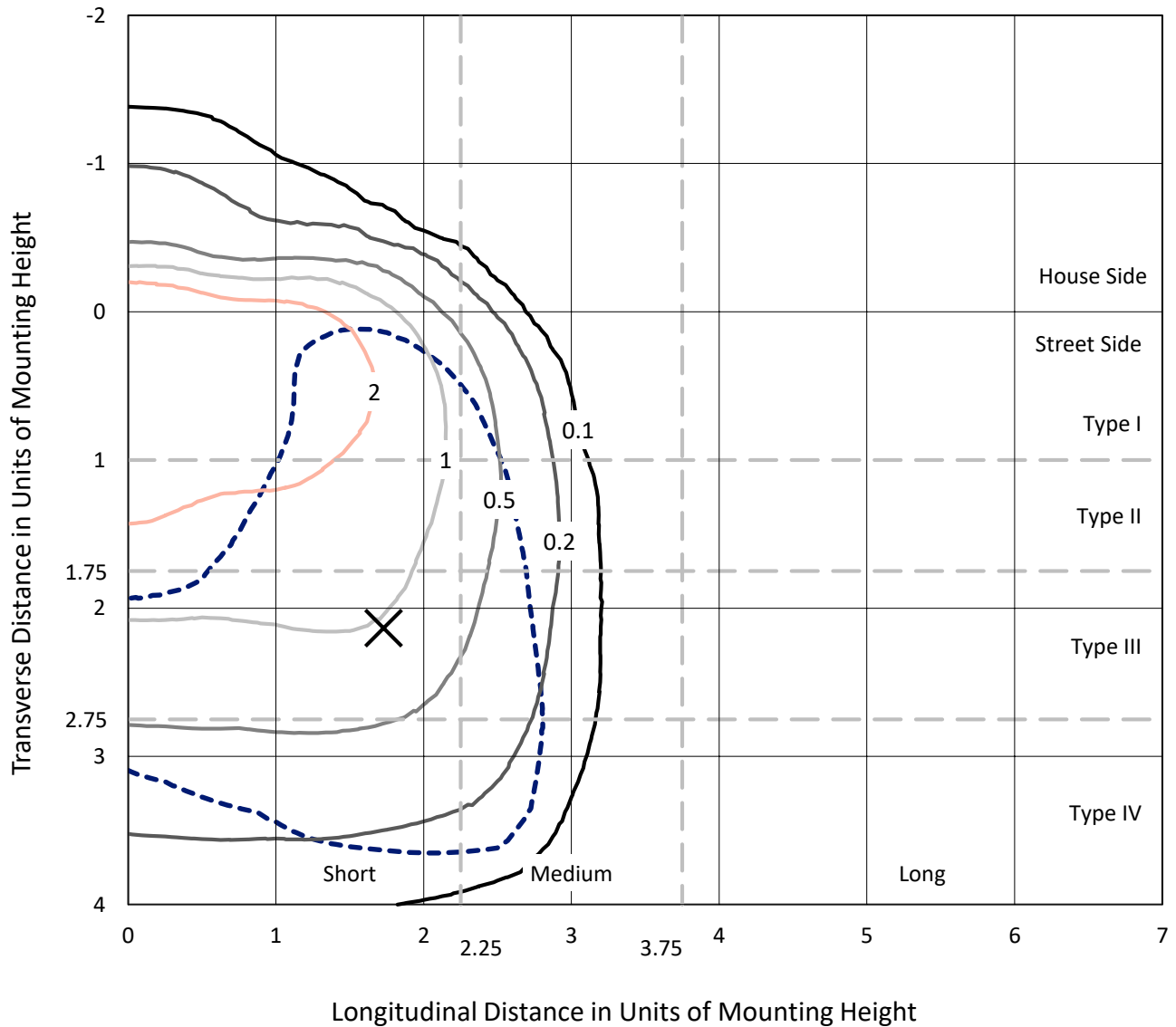


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Iso-Footcandle Lines of Horizontal Illumination

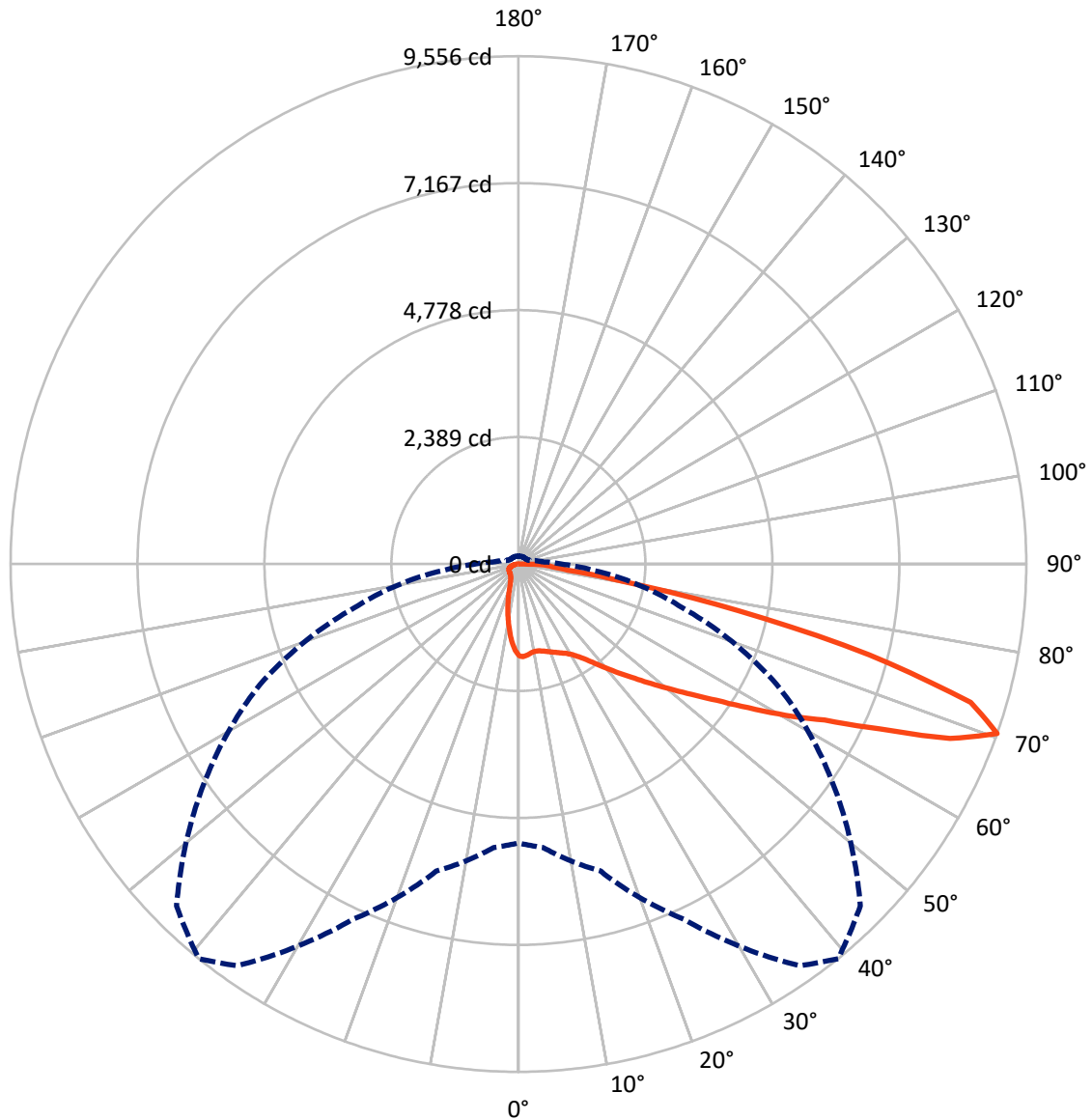
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	1294.0	0.0	1294.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10083.0	0.0	10083.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	11377.0	0.0	11377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.3
10°-20°	370.5	3.3
20°-30°	576.9	5.1
30°-40°	898.7	7.9
40°-50°	1508.8	13.3
50°-60°	2396.8	21.1
60°-70°	3197.1	28.1
70°-80°	1930.6	17.0
80°-90°	349.4	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°	11377.0	100.0
0°-180°	11377.0	100.0



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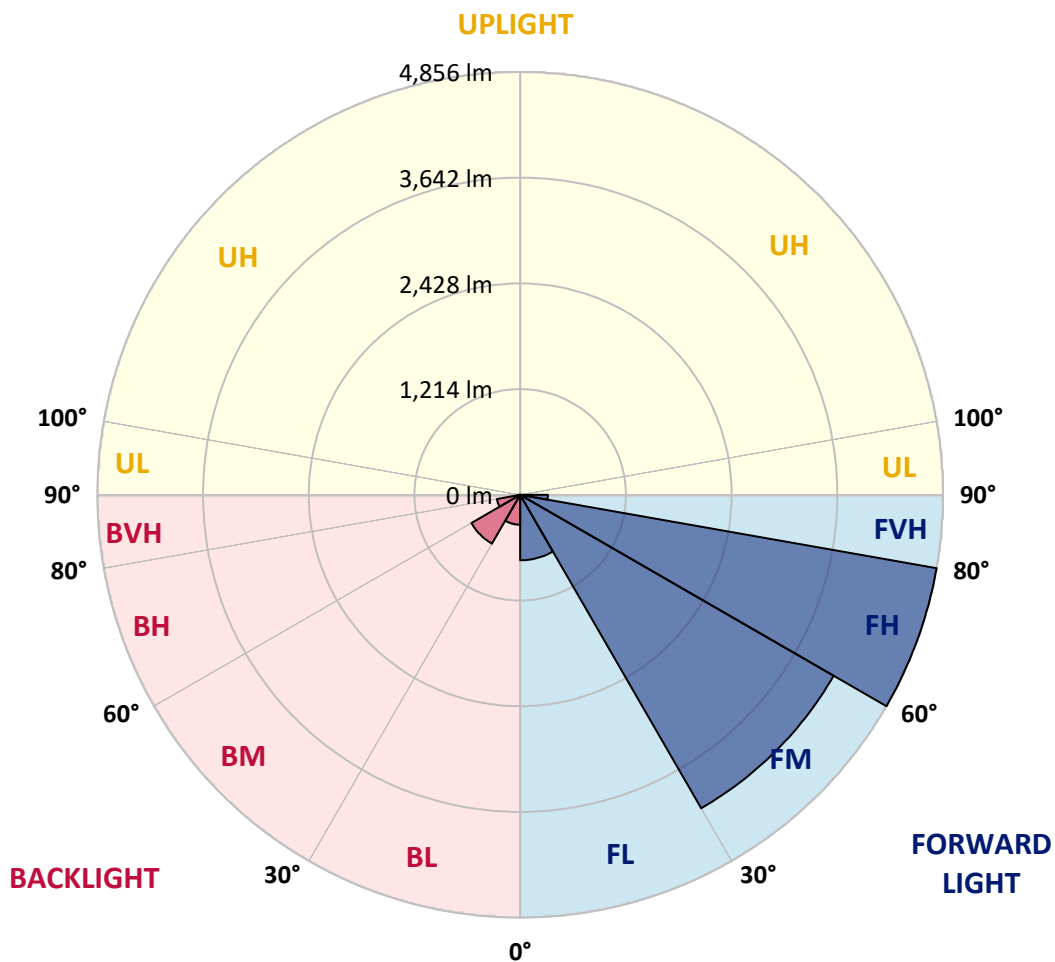
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.4	6.6			
FM	(30°-60°)	4156.7	36.5			
FH	(60°-80°)	4856.0	42.7			G2/5000
FVH	(80°-90°)	317.9	2.8			G3/500
BL	(0°-30°)	343.3	3.0	B1/500		
BM	(30°-60°)	647.5	5.7	B1/1000		
BH	(60°-80°)	271.6	2.4	B1/500		G1/500
BVH	(80°-90°)	31.5	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°	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2
2.5°	1760.8	1760.2	1755.5	1752.1	1749.2	1748.0	1750.3	1741.7	1734.1	1724.9	1715.1
5°	1747.5	1746.9	1739.4	1732.4	1725.5	1723.2	1722.6	1707.0	1697.7	1683.8	1665.3
7.5°	1733.0	1730.1	1720.3	1708.7	1696.5	1690.8	1685.0	1664.7	1654.3	1640.4	1619.0
10°	1717.9	1714.5	1705.2	1693.7	1682.1	1673.4	1663.6	1643.9	1632.9	1622.5	1597.6
12.5°	1702.3	1699.4	1697.1	1691.9	1683.8	1676.3	1668.8	1652.0	1640.4	1628.3	1599.4
15°	1700.0	1698.9	1704.1	1707.5	1702.9	1698.3	1690.2	1675.7	1663.6	1651.4	1613.8
17.5°	1718.5	1717.9	1731.3	1740.5	1738.2	1730.1	1719.1	1702.9	1693.1	1682.7	1635.8
20°	1759.0	1761.9	1778.1	1790.3	1778.7	1767.1	1749.2	1726.6	1721.4	1716.8	1658.4
22.5°	1835.4	1838.3	1849.8	1854.5	1824.4	1807.6	1782.7	1753.8	1750.3	1753.8	1685.6
25°	1954.5	1951.6	1949.9	1932.5	1877.6	1851.6	1819.8	1789.7	1791.4	1807.0	1723.7
27.5°	2112.4	2096.8	2072.5	2020.5	1933.1	1904.2	1865.5	1837.7	1848.7	1878.8	1781.0
30°	2276.1	2258.8	2202.7	2117.6	2006.0	1974.2	1930.8	1899.6	1928.5	1975.9	1857.4
32.5°	2427.7	2425.4	2343.2	2233.9	2106.7	2078.9	2035.5	2000.2	2047.1	2119.4	1971.9
35°	2593.1	2598.3	2500.0	2368.7	2242.6	2213.7	2182.4	2155.8	2218.3	2317.8	2137.9
37.5°	2770.1	2780.5	2664.3	2516.2	2397.6	2385.5	2367.0	2355.4	2452.0	2589.7	2369.8
40°	3006.7	2996.3	2834.9	2682.8	2587.9	2587.3	2581.6	2595.4	2756.2	2944.8	2667.7
42.5°	3260.1	3229.4	3016.0	2861.5	2796.7	2816.4	2828.0	2884.7	3122.4	3376.3	3031.0
45°	3533.1	3464.2	3203.9	3050.7	3028.7	3070.3	3109.7	3232.9	3553.3	3867.4	3429.0
47.5°	3751.1	3684.6	3398.3	3249.1	3297.1	3360.1	3435.9	3630.8	4035.7	4374.7	3821.7
50°	3922.9	3879.6	3594.4	3480.4	3592.7	3689.8	3813.6	4081.4	4537.8	4868.7	4185.6
52.5°	4089.5	4057.1	3792.2	3717.6	3939.7	4073.9	4242.2	4565.0	5052.6	5354.6	4491.5
55°	4239.9	4216.8	4005.1	4013.2	4348.1	4522.8	4734.5	5115.7	5613.7	5787.8	4750.7
57.5°	4409.4	4379.9	4248.0	4384.0	4872.7	5099.5	5374.8	5734.6	6140.1	6173.1	4947.9
60°	4580.0	4554.6	4517.6	4812.0	5539.1	5777.4	6038.3	6334.4	6674.0	6472.1	4936.4
62.5°	4728.1	4731.0	4796.4	5261.4	6191.6	6467.5	6785.6	7078.3	7157.0	6524.2	4571.4
65°	4979.2	5024.9	5219.8	5897.7	7110.1	7479.2	7869.6	7822.7	7290.6	6037.7	3788.7
67.5°	5277.6	5358.0	5753.1	6745.7	8271.0	8761.0	8911.9	7991.1	6755.5	4908.0	2700.7
70°	5247.6	5358.0	5983.3	7377.9	9227.8	9556.3	9098.2	7232.2	5364.4	3206.3	1434.5
72.5°	4659.9	4817.8	5514.2	7088.1	8926.4	8897.5	7898.5	5391.6	3187.2	1287.6	560.5
75°	3551.6	3711.2	4310.5	5599.8	7055.2	6812.2	5604.5	2978.4	1209.5	511.3	353.4
77.5°	2043.0	2166.8	2629.6	3434.2	4475.9	4226.6	3119.5	1324.6	588.8	356.3	275.9
80°	1140.7	1209.5	1490.6	1742.2	2193.4	2010.6	1395.8	823.1	439.6	258.6	212.9
82.5°	901.8	963.1	1205.5	1099.0	1001.8	924.3	801.7	732.9	351.1	163.1	127.3
85°	787.8	846.2	1020.4	865.3	684.3	627.6	651.3	721.3	273.0	98.3	108.7
87.5°	730.0	808.1	909.3	666.9	532.7	472.0	601.0	790.7	87.9	61.3	44.0
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°	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2
2.5°	1706.4	1697.1	1682.1	1668.8	1648.0	1637.0	1624.8	1616.1	1609.2	1603.4	1612.7
5°	1653.7	1636.4	1604.6	1570.4	1530.0	1498.1	1471.5	1446.7	1429.3	1417.7	1425.8
7.5°	1604.0	1575.7	1525.9	1464.0	1394.6	1335.6	1287.0	1244.2	1214.7	1195.6	1203.1
10°	1575.7	1540.4	1463.4	1366.3	1263.9	1171.9	1095.6	1029.6	983.9	957.9	961.9
12.5°	1568.7	1523.0	1416.6	1283.0	1143.0	1015.2	907.6	816.2	752.0	718.4	719.6
15°	1573.9	1515.5	1372.6	1203.1	1026.1	864.8	730.6	619.5	544.9	506.7	506.1
17.5°	1582.6	1509.7	1326.3	1117.0	907.6	720.2	570.3	461.6	395.6	365.0	362.7
20°	1591.9	1500.5	1274.3	1023.8	784.4	586.0	446.6	361.5	319.9	303.1	301.9
22.5°	1605.2	1492.4	1220.5	925.5	663.5	477.2	367.3	310.0	288.1	279.4	278.2
25°	1626.6	1488.3	1163.2	823.1	554.7	399.1	319.9	284.6	271.9	266.1	265.5
27.5°	1662.4	1494.1	1109.4	723.6	466.2	346.5	293.3	271.9	262.6	257.4	256.8
30°	1708.7	1512.0	1052.8	629.3	397.4	310.6	277.1	263.2	255.7	250.5	250.5
32.5°	1785.6	1542.1	993.2	547.8	348.2	285.7	264.9	255.7	249.3	245.3	244.7
35°	1899.0	1598.8	937.6	480.1	312.9	267.8	254.5	247.6	242.9	240.6	240.6
37.5°	2063.9	1688.4	888.5	431.5	291.5	255.7	244.7	239.5	236.6	236.6	236.6
40°	2285.4	1812.2	848.6	399.1	279.4	247.0	237.2	233.1	231.4	232.0	232.0
42.5°	2559.0	1973.0	822.0	376.6	273.6	241.8	232.0	228.5	226.7	226.2	226.7
45°	2870.8	2155.8	819.1	359.8	267.8	238.3	228.5	225.0	221.5	219.2	219.2
47.5°	3173.9	2341.5	842.8	354.0	261.5	234.3	225.6	222.1	216.9	211.7	211.7
50°	3441.7	2499.4	874.6	356.3	259.1	228.5	221.0	219.2	211.1	205.3	204.8
52.5°	3654.5	2620.9	900.6	363.3	261.5	224.4	215.2	215.8	207.1	200.7	200.1
55°	3825.2	2700.7	893.7	370.2	266.7	222.1	210.0	211.1	204.2	197.8	197.8
57.5°	3899.8	2671.2	816.7	364.4	270.7	222.7	205.9	210.6	204.8	199.0	199.0
60°	3739.6	2409.2	672.7	339.0	265.5	221.0	204.2	212.9	212.3	206.5	205.9
62.5°	3254.9	1940.1	521.7	301.4	247.6	212.3	199.6	212.3	218.6	216.9	216.3
65°	2508.7	1381.9	398.5	260.9	223.3	197.8	187.4	199.0	207.7	210.0	209.4
67.5°	1628.3	846.8	307.1	222.7	196.1	181.0	171.8	177.0	178.7	178.7	177.6
70°	800.6	455.8	244.7	187.4	168.3	163.1	157.9	155.0	152.1	149.8	149.8
72.5°	395.1	297.9	201.3	158.5	145.2	142.9	141.7	138.2	135.9	133.0	131.9
75°	292.1	242.4	171.2	133.6	124.9	122.6	124.9	122.0	121.5	119.2	118.0
77.5°	240.1	206.5	147.5	114.5	107.0	103.0	106.4	107.0	107.6	104.1	103.0
80°	194.9	174.7	123.2	94.9	87.9	85.0	87.3	92.0	93.1	87.9	85.6
82.5°	140.6	142.9	99.5	74.0	68.3	65.9	70.6	76.4	77.5	70.0	68.3
85°	118.0	119.2	76.4	52.6	46.9	43.4	50.9	56.7	60.7	53.2	51.5
87.5°	49.2	70.0	44.0	29.5	26.0	22.6	27.2	30.1	36.4	33.5	33.0
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)