

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: P269086

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269086
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-02-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11029.9 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

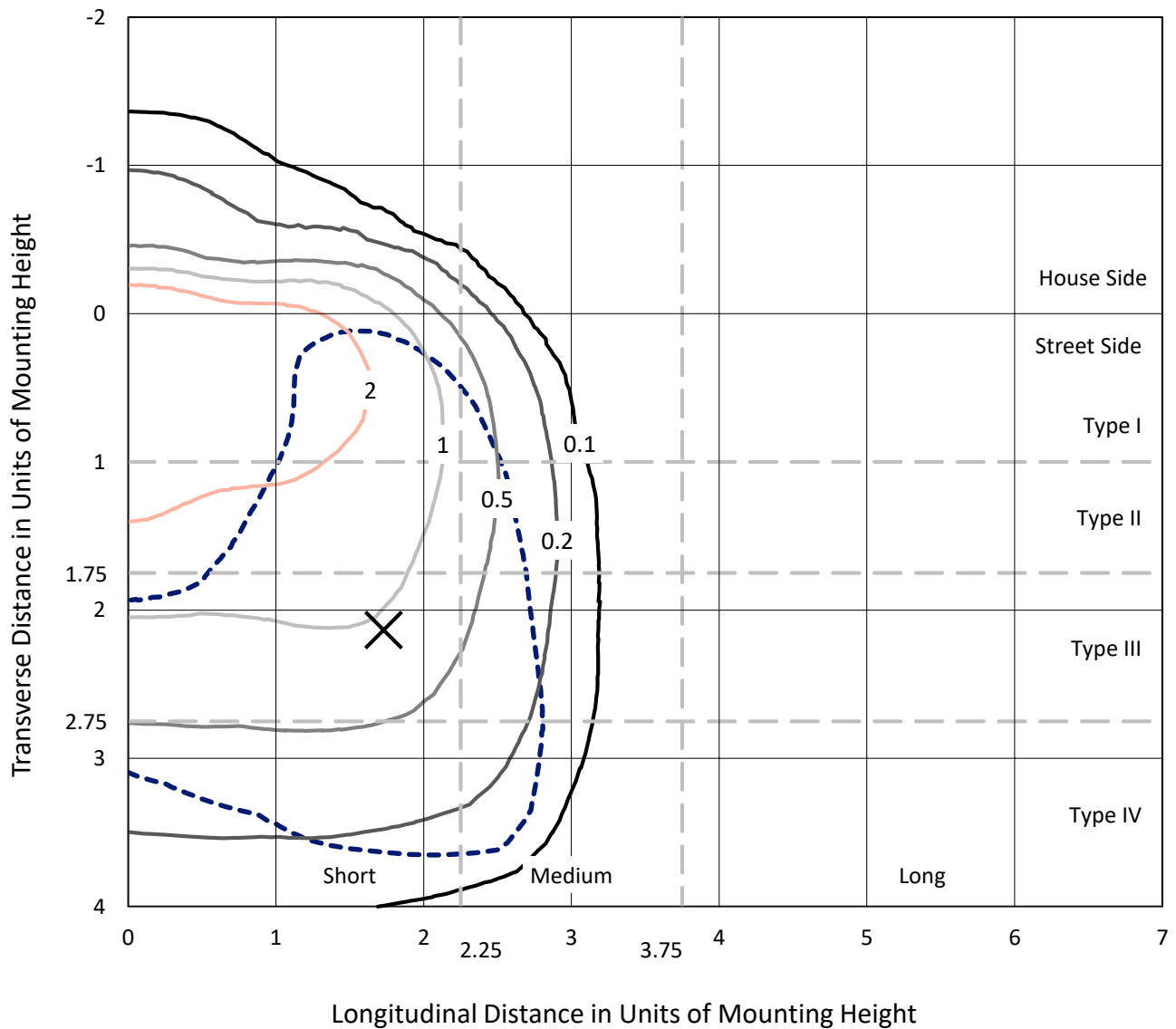


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

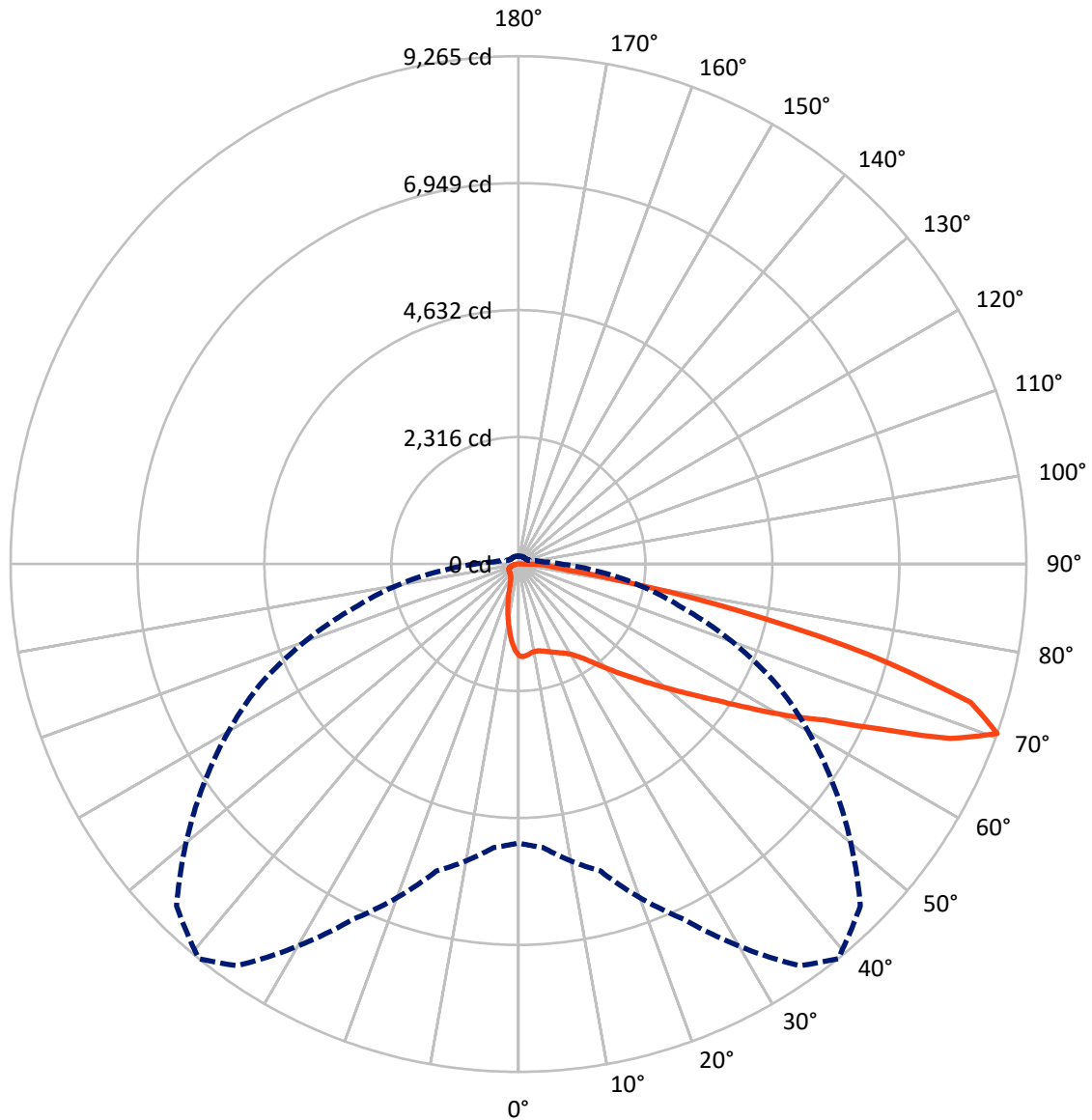


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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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	1254.5	0.0	1254.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9775.4	0.0	9775.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	11029.9	0.0	11029.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.3
10°-20°	359.2	3.3
20°-30°	559.3	5.1
30°-40°	871.3	7.9
40°-50°	1462.7	13.3
50°-60°	2323.7	21.1
60°-70°	3099.5	28.1
70°-80°	1871.7	17.0
80°-90°	338.8	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°	11029.9	100.0
0°-180°	11029.9	100.0

Coefficient of Utilization



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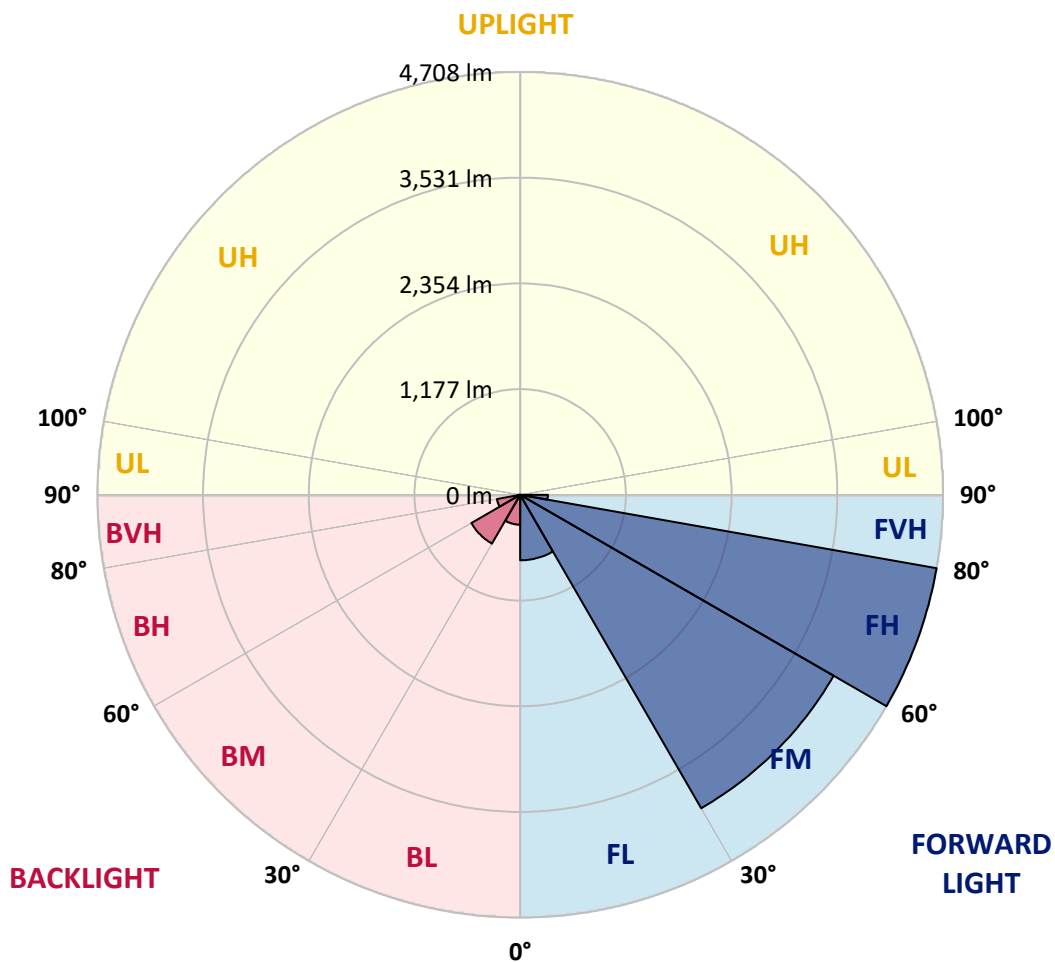
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.4	6.6			
FM	(30°-60°)	4029.9	36.5			
FH	(60°-80°)	4707.9	42.7			G2/5000
FVH	(80°-90°)	308.2	2.8			G3/500
BL	(0°-30°)	332.8	3.0	B1/500		
BM	(30°-60°)	627.8	5.7	B1/1000		
BH	(60°-80°)	263.4	2.4	B1/500		G1/500
BVH	(80°-90°)	30.5	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°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
2.5°	1707.0	1706.5	1702.0	1698.7	1695.8	1694.7	1697.0	1688.5	1681.3	1672.3	1662.8
5°	1694.2	1693.6	1686.3	1679.6	1672.9	1670.6	1669.9	1654.9	1646.0	1632.5	1614.6
7.5°	1680.1	1677.3	1667.8	1656.6	1644.7	1639.1	1633.6	1614.0	1603.8	1590.4	1569.7
10°	1665.5	1662.1	1653.2	1642.0	1630.8	1622.3	1612.8	1593.8	1583.2	1573.0	1548.9
12.5°	1650.4	1647.6	1645.3	1640.2	1632.5	1625.2	1617.8	1601.6	1590.4	1578.6	1550.6
15°	1648.1	1647.0	1652.1	1655.4	1650.9	1646.5	1638.6	1624.7	1612.8	1601.0	1564.6
17.5°	1666.0	1665.5	1678.5	1687.3	1685.2	1677.3	1666.6	1650.9	1641.5	1631.3	1585.9
20°	1705.3	1708.1	1723.8	1735.6	1724.4	1713.2	1695.8	1673.9	1669.0	1664.4	1607.7
22.5°	1779.4	1782.1	1793.3	1797.9	1768.8	1752.5	1728.3	1700.3	1697.0	1700.3	1634.1
25°	1894.9	1892.1	1890.5	1873.5	1820.3	1795.1	1764.2	1735.0	1736.8	1752.0	1671.1
27.5°	2048.0	2032.9	2009.2	1958.8	1874.1	1846.0	1808.6	1781.6	1792.3	1821.5	1726.6
30°	2206.6	2189.9	2135.5	2053.0	1944.8	1914.0	1871.9	1841.6	1869.6	1915.6	1800.7
32.5°	2353.6	2351.4	2271.8	2165.8	2042.3	2015.4	1973.3	1939.3	1984.6	2054.8	1911.8
35°	2513.9	2519.0	2423.6	2296.3	2174.2	2146.1	2115.9	2090.0	2150.6	2247.1	2072.7
37.5°	2685.7	2695.8	2582.9	2439.3	2324.5	2312.6	2294.7	2283.5	2377.2	2510.7	2297.5
40°	2915.0	2904.8	2748.5	2601.0	2509.0	2508.3	2502.8	2516.2	2672.2	2855.0	2586.3
42.5°	3160.5	3130.9	2924.0	2774.2	2711.4	2730.5	2741.6	2796.7	3027.1	3273.3	2938.5
45°	3425.2	3358.6	3106.2	2957.6	2936.3	2976.7	3014.8	3134.2	3444.9	3749.4	3324.4
47.5°	3636.7	3572.2	3294.7	3149.9	3196.4	3257.7	3331.1	3520.1	3912.6	4241.3	3705.1
50°	3803.2	3761.3	3484.7	3374.3	3483.1	3577.3	3697.2	3956.9	4399.4	4720.1	4057.9
52.5°	3964.8	3933.4	3676.6	3604.2	3819.6	3949.6	4112.8	4425.7	4898.5	5191.1	4354.5
55°	4110.6	4088.1	3882.8	3890.6	4215.4	4384.7	4590.0	4959.6	5442.4	5611.3	4605.7
57.5°	4274.9	4246.3	4118.4	4250.2	4724.0	4943.9	5210.8	5559.6	5952.8	5984.7	4796.9
60°	4440.3	4415.6	4379.7	4665.2	5370.1	5601.1	5854.1	6141.2	6470.3	6274.7	4785.7
62.5°	4584.0	4586.7	4650.0	5100.9	6002.7	6270.2	6578.6	6862.3	6938.6	6325.1	4431.9
65°	4827.2	4871.6	5060.5	5717.8	6893.1	7250.9	7629.6	7584.1	7068.1	5853.4	3673.2
67.5°	5116.7	5194.5	5577.5	6539.9	8018.7	8493.7	8640.1	7747.3	6549.5	4758.3	2618.3
70°	5087.5	5194.5	5800.7	7152.8	8946.2	9264.8	8820.5	7011.5	5200.7	3108.4	1390.8
72.5°	4517.7	4670.7	5346.0	6871.9	8654.0	8626.1	7657.5	5227.1	3089.9	1248.4	543.5
75°	3443.3	3598.0	4178.9	5428.9	6840.0	6604.3	5433.5	2887.5	1172.6	495.8	342.7
77.5°	1980.8	2100.6	2549.3	3329.4	4339.4	4097.7	3024.4	1284.1	571.0	345.5	267.4
80°	1105.9	1172.6	1445.2	1689.2	2126.5	1949.3	1353.1	798.1	426.2	250.6	206.4
82.5°	874.3	933.7	1168.7	1065.5	971.2	896.1	777.3	710.5	340.4	158.1	123.3
85°	763.7	820.4	989.3	838.9	663.4	608.4	631.5	699.3	264.7	95.3	105.5
87.5°	707.8	783.4	881.5	646.6	516.4	457.5	582.7	766.7	85.2	59.5	42.6
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°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
2.5°	1654.3	1645.3	1630.8	1617.8	1597.6	1587.0	1575.3	1566.9	1560.0	1554.4	1563.5
5°	1603.2	1586.4	1555.7	1522.5	1483.3	1452.4	1426.7	1402.6	1385.6	1374.4	1382.3
7.5°	1555.1	1527.6	1479.4	1419.3	1352.0	1294.8	1247.7	1206.2	1177.7	1159.2	1166.4
10°	1527.6	1493.4	1418.9	1324.6	1225.3	1136.1	1062.2	998.1	953.9	928.7	932.6
12.5°	1520.8	1476.5	1373.4	1243.9	1108.1	984.2	879.9	791.2	729.1	696.5	697.7
15°	1526.0	1469.3	1330.7	1166.4	994.9	838.4	708.3	600.5	528.3	491.3	490.7
17.5°	1534.3	1463.7	1285.8	1082.8	879.9	698.3	552.9	447.5	383.5	353.8	351.5
20°	1543.3	1454.6	1235.3	992.5	760.4	568.1	433.0	350.5	310.2	293.8	292.8
22.5°	1556.1	1446.8	1183.2	897.2	643.2	462.6	356.1	300.7	279.3	270.8	269.8
25°	1577.0	1442.9	1127.7	798.1	537.7	386.9	310.2	275.9	263.6	258.0	257.5
27.5°	1611.6	1448.4	1075.6	701.5	451.9	335.8	284.4	263.6	254.6	249.5	249.0
30°	1656.6	1465.9	1020.7	610.0	385.3	301.1	268.7	255.2	247.8	242.8	242.8
32.5°	1731.2	1495.0	962.9	531.1	337.7	277.0	256.8	247.8	241.7	237.8	237.2
35°	1841.0	1550.0	909.1	465.4	303.4	259.6	246.8	239.9	235.5	233.3	233.3
37.5°	2000.9	1636.9	861.4	418.3	282.6	247.8	237.2	232.1	229.3	229.3	229.3
40°	2215.7	1756.9	822.7	386.9	270.8	239.5	230.0	226.1	224.2	224.8	224.8
42.5°	2480.8	1912.9	796.8	365.2	265.3	234.4	224.8	221.5	219.8	219.2	219.8
45°	2783.2	2090.0	794.1	348.8	259.6	231.0	221.5	218.2	214.8	212.4	212.4
47.5°	3077.1	2270.0	817.1	343.2	253.5	227.1	218.6	215.4	210.4	205.3	205.3
50°	3336.7	2423.2	847.9	345.5	251.3	221.5	214.2	212.4	204.6	199.1	198.5
52.5°	3543.1	2540.9	873.2	352.1	253.5	217.6	208.5	209.1	200.7	194.7	194.0
55°	3708.6	2618.3	866.4	359.0	258.5	215.4	203.6	204.6	197.9	191.8	191.8
57.5°	3780.8	2589.8	791.9	353.4	262.5	216.0	199.7	204.2	198.5	193.0	193.0
60°	3625.5	2335.7	652.2	328.6	257.5	214.2	197.9	206.4	205.8	200.2	199.7
62.5°	3155.6	1881.0	505.8	292.2	239.9	205.8	193.4	205.8	212.0	210.4	209.8
65°	2432.2	1339.7	386.5	253.0	216.4	191.8	181.6	193.0	201.3	203.6	202.9
67.5°	1578.6	821.1	297.8	216.0	190.1	175.4	166.5	171.5	173.4	173.4	172.1
70°	776.1	441.8	237.2	181.6	163.2	158.1	153.2	150.2	147.5	145.3	145.3
72.5°	382.9	288.9	195.1	153.7	140.8	138.5	137.4	134.0	131.8	128.9	127.9
75°	283.1	234.9	165.9	129.5	121.1	118.8	121.1	118.3	117.8	115.5	114.4
77.5°	232.8	200.2	143.0	111.0	103.8	99.8	103.1	103.8	104.4	100.9	99.8
80°	189.1	169.4	119.5	91.9	85.2	82.5	84.7	89.1	90.3	85.2	83.1
82.5°	136.3	138.5	96.5	71.8	66.1	63.9	68.5	74.0	75.2	67.8	66.1
85°	114.4	115.5	74.0	51.1	45.5	42.1	49.3	54.9	58.8	51.7	49.9
87.5°	47.7	67.8	42.6	28.6	25.2	21.9	26.4	29.1	35.4	32.5	32.0
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)