

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: P191530

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12533.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

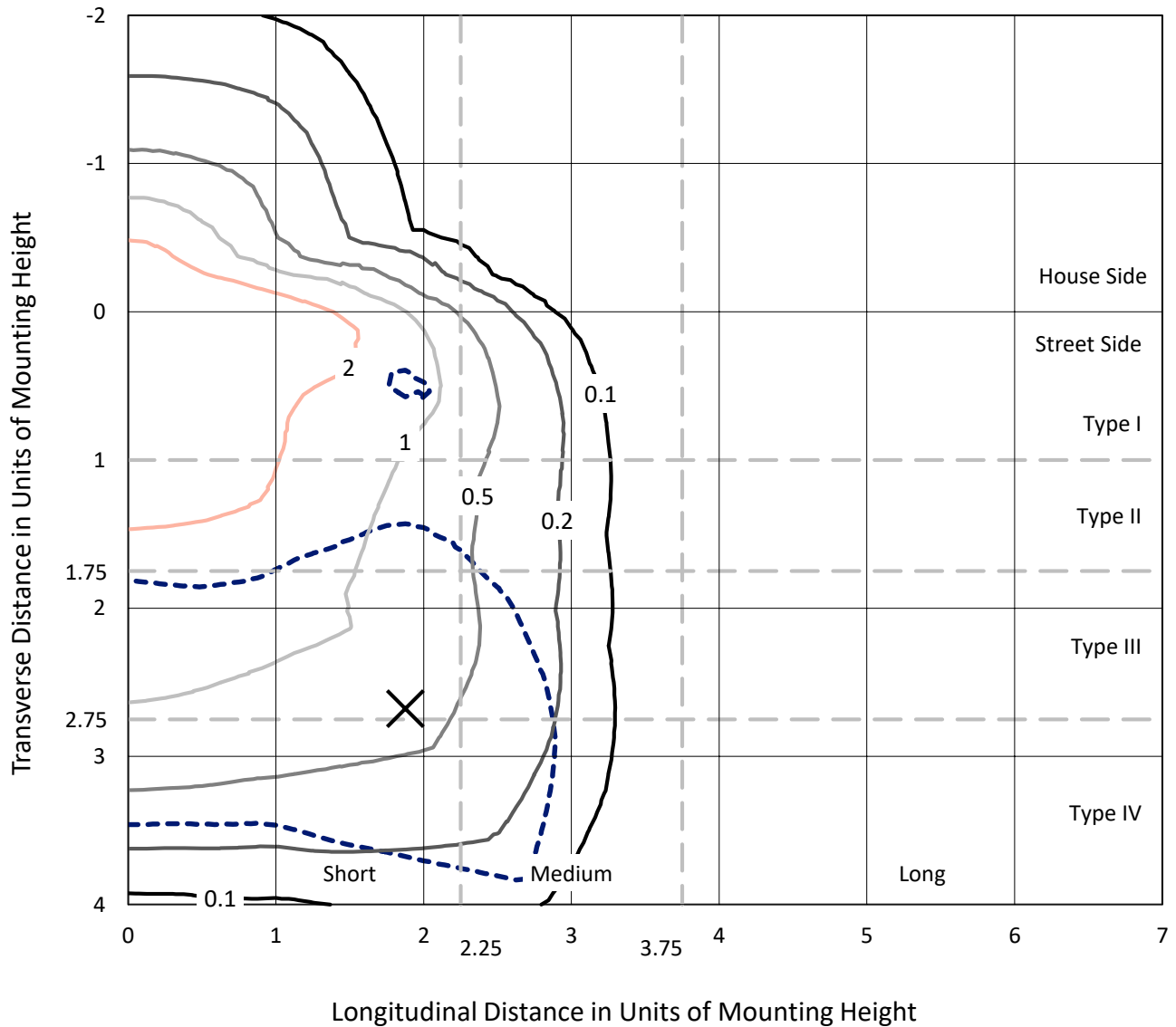
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

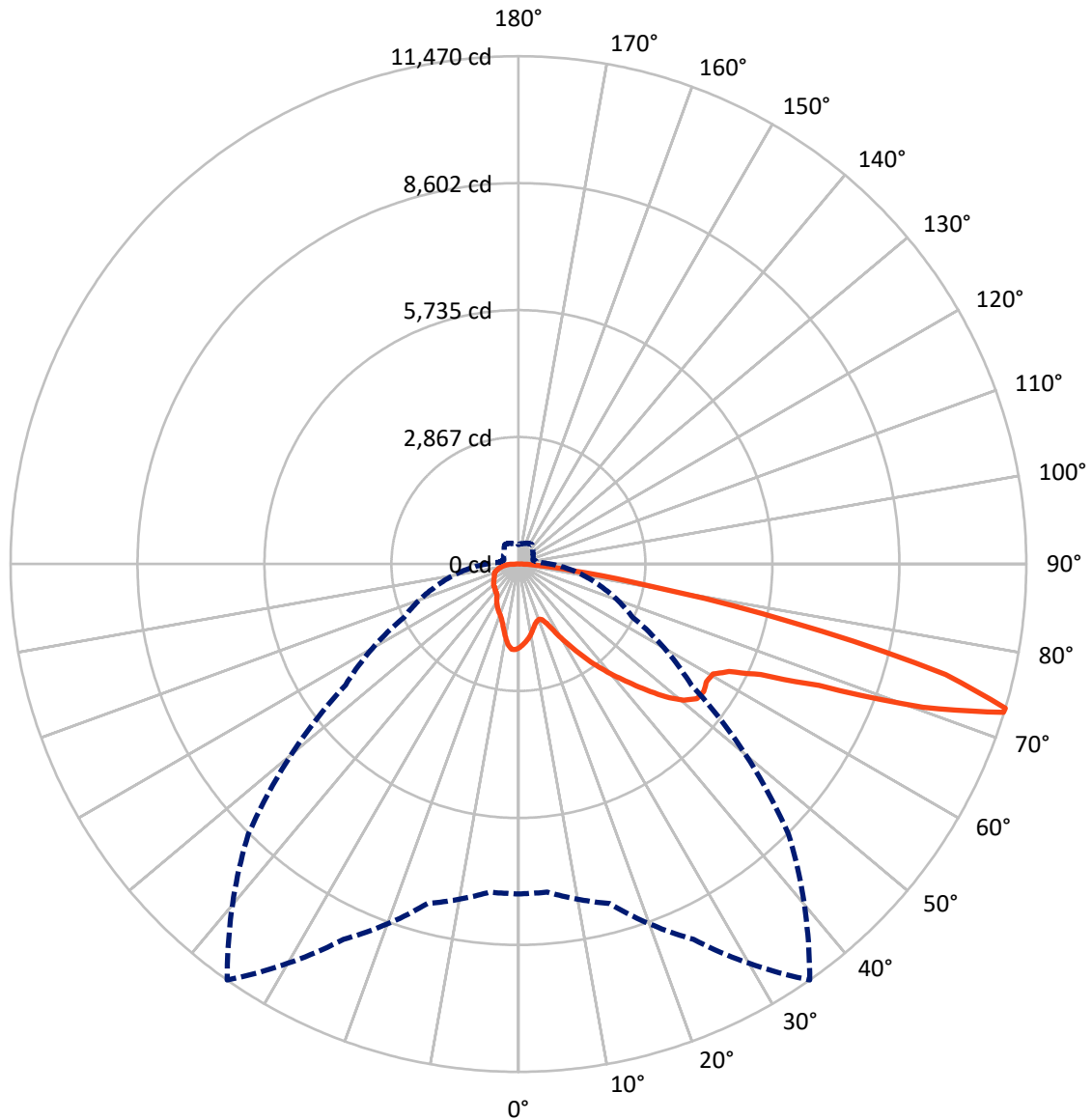
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2390.4	0.0	2390.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10142.8	0.0	10142.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	12533.2	0.0	12533.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.4
10°-20°	427.4	3.4
20°-30°	691.0	5.5
30°-40°	1158.7	9.2
40°-50°	1786.0	14.3
50°-60°	2396.1	19.1
60°-70°	3192.1	25.5
70°-80°	2434.6	19.4
80°-90°	276.0	2.2
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°	12533.2	100.0
0°-180°	12533.2	100.0

Coefficient of Utilization



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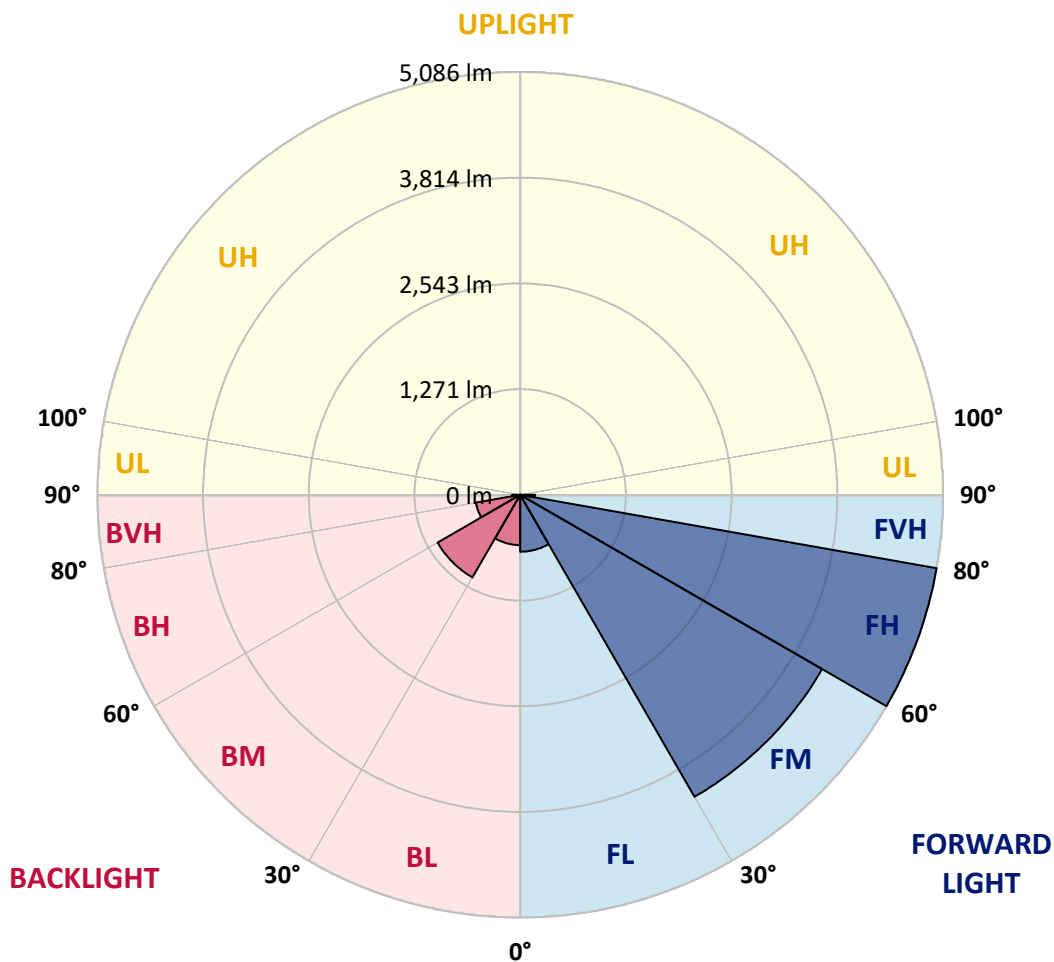
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.7	5.5			
FM	(30°-60°)	4193.7	33.5			
FH	(60°-80°)	5086.0	40.6			G3/7500
FVH	(80°-90°)	178.4	1.4			G2/225
BL	(0°-30°)	604.9	4.8	B2/1000		
BM	(30°-60°)	1147.1	9.2	B2/2500		
BH	(60°-80°)	540.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	97.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6
2.5°	1817.1	1820.6	1816.5	1821.9	1830.9	1840.5	1847.1	1856.8	1867.6	1882.6	1886.2
5°	1731.5	1737.0	1737.0	1746.6	1764.1	1779.7	1794.2	1809.8	1832.6	1858.5	1868.7
7.5°	1637.6	1640.7	1646.1	1660.6	1685.8	1708.1	1728.6	1753.8	1785.2	1819.4	1837.5
10°	1524.5	1528.7	1537.2	1557.6	1591.9	1622.6	1652.1	1687.1	1726.7	1769.5	1792.3
12.5°	1444.5	1443.3	1446.9	1461.9	1492.0	1529.3	1572.1	1616.6	1665.4	1715.3	1743.0
15°	1417.4	1410.8	1396.9	1393.3	1409.5	1446.9	1496.3	1551.0	1609.4	1669.6	1703.8
17.5°	1434.3	1422.8	1384.9	1357.1	1354.8	1383.0	1435.4	1496.8	1564.2	1637.6	1680.4
20°	1540.2	1513.0	1419.8	1355.4	1333.1	1346.9	1392.7	1457.7	1537.2	1634.7	1689.4
22.5°	1793.5	1753.8	1555.8	1436.0	1360.8	1344.0	1378.2	1447.5	1540.2	1672.0	1741.8
25°	2162.5	2105.9	1789.3	1637.0	1481.7	1392.1	1399.9	1470.9	1582.9	1758.7	1842.9
27.5°	2453.8	2417.0	2094.5	1920.5	1702.1	1522.2	1470.4	1529.9	1670.2	1900.6	1986.8
30°	2627.1	2604.8	2420.7	2241.9	1983.1	1729.2	1605.1	1640.7	1806.7	2097.5	2168.6
32.5°	2828.2	2814.9	2724.6	2560.3	2286.5	2001.2	1818.8	1806.2	1989.7	2334.1	2366.5
35°	3036.4	3032.1	2979.2	2861.3	2612.1	2359.8	2102.3	2016.8	2189.0	2579.6	2559.1
37.5°	3230.2	3223.0	3192.2	3123.7	2952.7	2745.1	2391.1	2232.9	2403.8	2814.3	2723.4
40°	3587.1	3530.5	3425.1	3373.4	3297.0	3069.5	2620.5	2434.5	2626.5	3038.2	2865.5
42.5°	4022.2	3930.2	3734.0	3662.9	3652.1	3325.3	2777.0	2630.1	2851.0	3260.2	3005.1
45°	4364.7	4278.0	4108.9	4019.3	4059.0	3557.0	2934.0	2839.0	3082.2	3493.2	3148.9
47.5°	4730.0	4594.0	4370.1	4397.2	4483.9	3776.1	3094.1	3063.4	3335.5	3753.8	3327.7
50°	4743.2	4639.2	4541.1	4702.9	4837.7	3977.7	3294.6	3298.8	3645.5	4081.8	3565.4
52.5°	4468.2	4445.9	4601.8	4856.5	5050.8	4137.2	3522.7	3542.0	4042.1	4458.6	3826.7
55°	4371.9	4346.6	4526.6	4802.9	5079.7	4269.0	3770.1	3805.0	4521.7	4855.8	4081.3
57.5°	4606.7	4550.7	4562.7	4777.6	5009.3	4413.4	4039.7	4110.1	5042.9	5203.0	4244.9
60°	5262.7	5142.9	4915.4	4910.0	5047.2	4630.1	4351.4	4437.6	5584.7	5369.2	4181.1
62.5°	6182.9	6063.1	5637.1	5359.5	5339.1	4987.6	4734.2	4757.1	5897.6	5144.1	3791.8
65°	7179.0	7071.9	6595.8	6204.0	6015.0	5579.9	5179.0	4899.7	5795.3	4524.8	3110.4
67.5°	8388.1	8273.2	7863.9	7502.2	7320.4	6535.6	5491.4	4763.2	5146.0	3505.2	2235.9
70°	9233.8	9116.4	8955.1	9248.2	9693.0	7914.5	5531.7	4207.6	3843.5	2329.8	1345.8
72.5°	8130.5	8075.8	8370.1	9604.5	11457.0	8751.0	5000.3	3063.4	2232.3	1236.8	778.8
73°	7449.2	7437.2	7939.1	9354.7	11469.6	8622.2	4767.4	2847.4	1914.6	1094.1	712.0
75°	3363.8	3460.7	4560.9	7145.3	9965.0	7105.0	3355.4	1633.4	1081.6	756.0	537.5
77.5°	808.3	842.0	1427.0	3393.3	6293.1	4234.1	1520.3	807.7	691.5	533.9	392.4
80°	344.2	355.7	549.5	1253.6	2963.0	1705.1	700.5	541.0	478.4	372.6	275.1
82.5°	191.4	203.5	311.8	568.8	1195.9	581.4	427.3	376.8	314.8	224.5	178.7
85°	108.3	115.0	182.4	317.8	506.8	233.5	255.8	250.4	177.6	115.6	87.9
87.5°	51.1	55.3	87.9	147.4	198.7	91.5	130.0	143.2	111.3	70.4	45.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6
2.5°	1890.4	1901.3	1913.9	1920.5	1926.5	1933.8	1941.0	1941.0	1942.2	1942.8
5°	1877.2	1899.5	1919.4	1927.8	1929.6	1929.6	1927.8	1918.1	1909.7	1913.3
7.5°	1849.5	1882.0	1898.9	1895.8	1873.0	1846.5	1824.2	1797.1	1783.3	1780.9
10°	1809.8	1847.1	1850.1	1820.0	1763.5	1706.9	1659.9	1614.2	1592.5	1587.1
12.5°	1765.8	1800.2	1780.9	1718.9	1628.0	1545.6	1486.0	1439.7	1419.1	1413.8
15°	1730.3	1753.8	1705.1	1607.6	1493.2	1405.9	1356.6	1322.3	1307.8	1303.6
17.5°	1711.7	1716.5	1627.4	1495.7	1374.0	1301.2	1270.5	1254.2	1248.8	1245.9
20°	1720.7	1687.1	1553.5	1391.5	1276.5	1225.4	1218.1	1213.9	1212.7	1211.0
22.5°	1765.8	1677.9	1485.4	1292.8	1191.1	1168.8	1174.9	1174.2	1173.0	1171.8
25°	1846.5	1685.8	1419.1	1198.9	1119.4	1114.6	1125.5	1125.5	1120.6	1120.6
27.5°	1953.0	1702.1	1345.2	1109.8	1054.5	1055.1	1063.5	1061.1	1055.7	1052.0
30°	2083.0	1712.3	1258.5	1029.8	993.7	991.2	993.7	983.5	967.2	966.0
32.5°	2216.0	1699.6	1158.0	958.8	929.2	923.8	922.1	907.6	888.9	883.5
35°	2336.4	1653.3	1055.7	902.1	867.9	855.8	864.3	859.5	842.6	838.4
37.5°	2424.3	1567.3	963.6	852.2	824.0	820.9	826.3	828.2	808.3	804.0
40°	2483.3	1450.4	884.8	810.1	815.5	804.0	786.0	773.4	767.4	765.6
42.5°	2530.8	1328.9	818.6	790.2	817.3	784.2	745.1	724.7	735.5	740.3
45°	2585.6	1210.4	763.1	765.6	808.3	761.4	716.8	696.9	701.1	702.4
47.5°	2660.8	1065.9	703.6	725.9	778.2	745.7	699.4	671.1	651.2	642.2
50°	2764.9	895.0	641.6	681.3	748.7	734.3	672.3	642.2	605.5	597.1
52.5°	2837.2	735.5	590.4	643.9	722.2	711.4	650.6	611.5	573.0	565.8
55°	2798.1	610.9	545.8	602.4	687.3	683.1	632.6	580.2	550.1	544.1
57.5°	2602.5	532.0	511.6	563.3	644.6	659.1	608.5	553.7	532.0	527.8
60°	2229.3	482.7	489.9	536.8	609.7	634.9	584.4	539.3	524.8	521.8
62.5°	1729.7	449.6	473.6	517.6	582.6	618.1	571.2	537.5	532.0	528.5
65°	1239.2	423.1	456.2	498.4	557.9	602.4	566.3	535.0	536.2	533.3
67.5°	842.0	399.7	435.2	476.7	533.9	588.6	559.8	526.6	541.7	538.1
70°	589.2	376.8	410.5	449.0	503.8	569.4	547.7	514.0	512.8	498.4
72.5°	459.8	346.7	376.8	410.5	465.2	542.3	523.6	485.7	465.9	450.8
73°	438.7	339.4	368.4	402.0	456.8	535.6	517.0	477.9	455.6	441.8
75°	362.9	308.1	334.6	364.7	420.7	504.3	484.5	442.3	414.1	405.7
77.5°	285.3	263.6	288.9	316.0	370.7	458.6	436.4	396.0	380.3	373.2
80°	211.2	218.5	240.7	264.8	321.4	409.9	390.1	349.6	419.5	402.0
82.5°	148.6	165.5	186.0	207.7	269.6	362.3	338.3	296.8	307.0	255.2
85°	87.9	108.3	127.6	146.3	194.4	300.3	279.3	236.5	193.8	184.7
87.5°	51.1	60.1	65.6	84.9	133.6	226.3	196.8	175.1	100.6	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)