

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: P193800

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193800
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-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 10359 lumens
Efficiency: N/A
Efficacy: 80.3 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

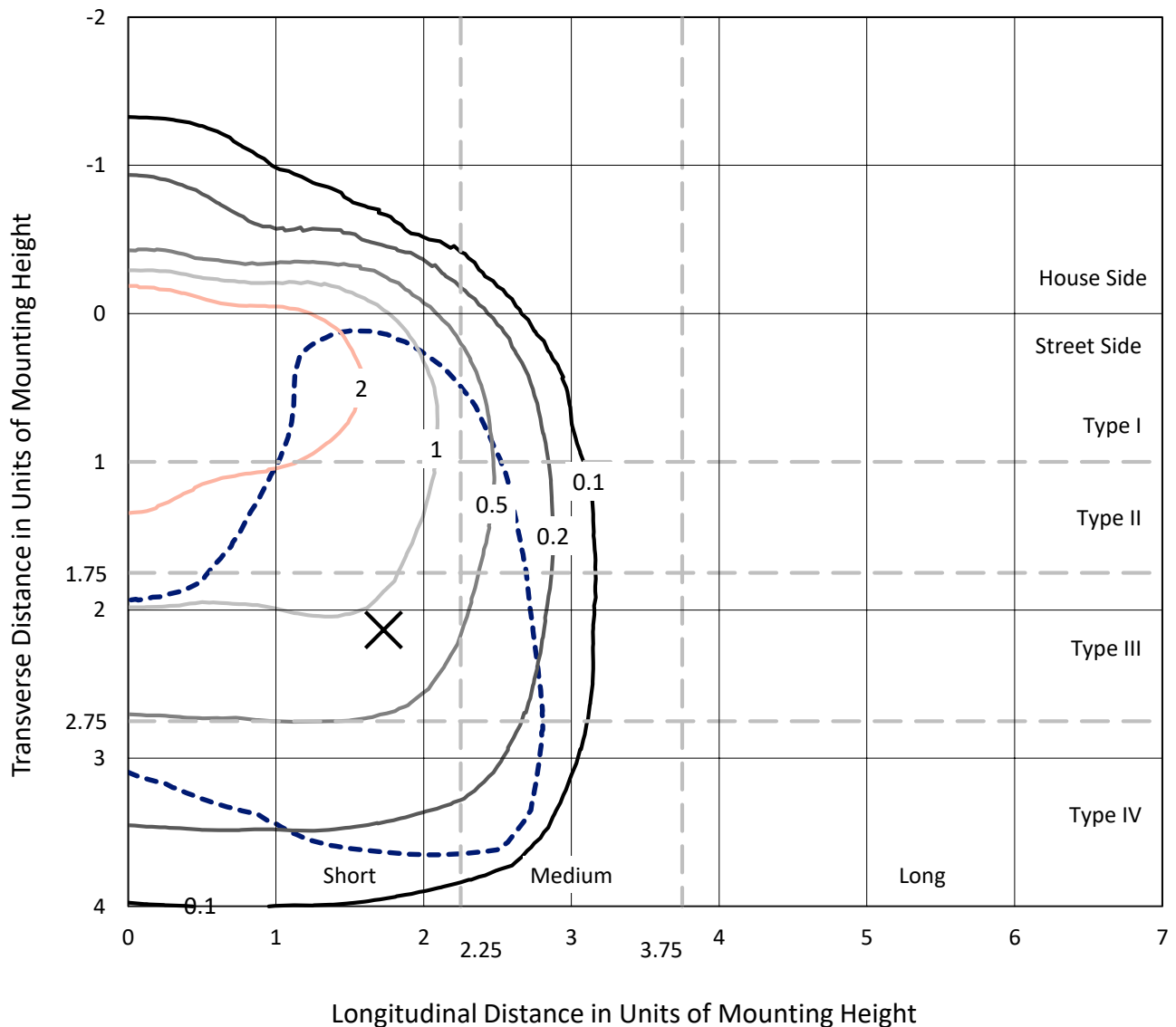


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

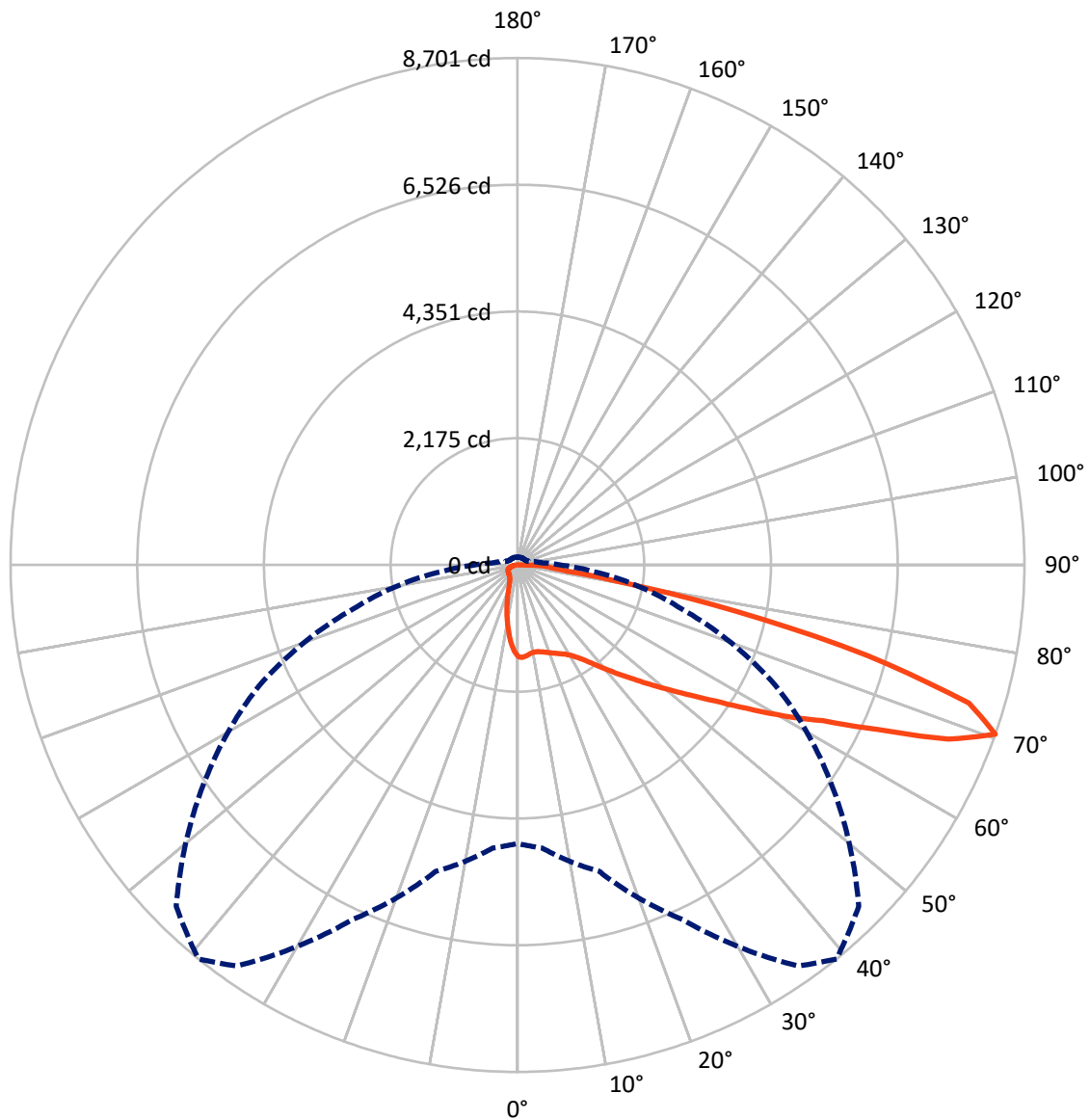


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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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	1178.2	0.0	1178.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9180.8	0.0	9180.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	10359.0	0.0	10359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.3
10°-20°	337.4	3.3
20°-30°	525.3	5.1
30°-40°	818.3	7.9
40°-50°	1373.8	13.3
50°-60°	2182.3	21.1
60°-70°	2911.0	28.1
70°-80°	1757.9	17.0
80°-90°	318.2	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°	10359.0	100.0
0°-180°	10359.0	100.0



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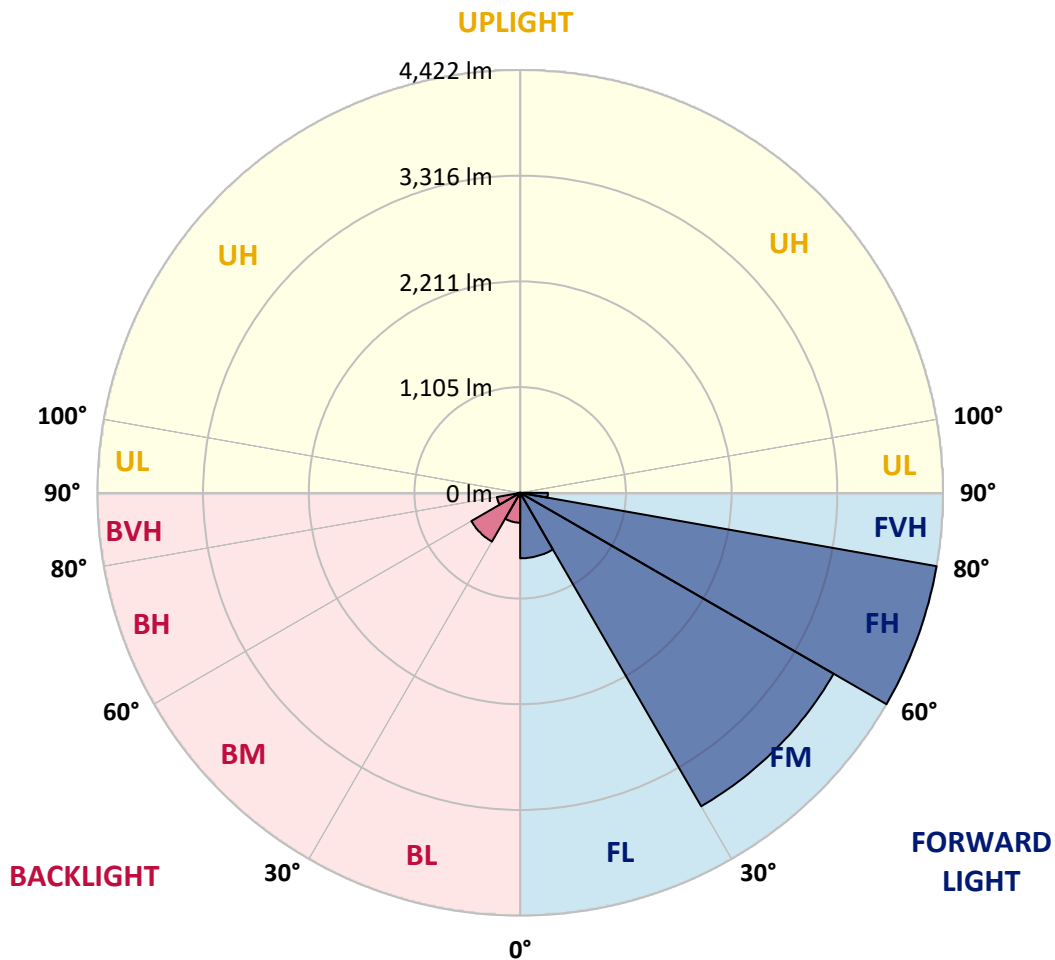
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.1	6.6			
FM (30°-60°)	3784.8	36.5			
FH (60°-80°)	4421.5	42.7			G2/5000
FVH (80°-90°)	289.5	2.8			G3/500
BL (0°-30°)	312.5	3.0	B1/500		
BM (30°-60°)	589.6	5.7	B1/1000		
BH (60°-80°)	247.3	2.4	B1/500		G1/500
BVH (80°-90°)	28.7	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°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1603.2	1602.7	1598.5	1595.3	1592.7	1591.6	1593.7	1585.8	1579.0	1570.6	1561.6
5°	1591.1	1590.6	1583.7	1577.4	1571.1	1569.0	1568.4	1554.2	1545.8	1533.2	1516.3
7.5°	1577.9	1575.3	1566.3	1555.8	1544.7	1539.5	1534.2	1515.8	1506.3	1493.7	1474.2
10°	1564.2	1561.1	1552.6	1542.1	1531.6	1523.7	1514.7	1496.8	1486.8	1477.3	1454.7
12.5°	1550.0	1547.4	1545.3	1540.5	1533.2	1526.3	1519.5	1504.2	1493.7	1482.6	1456.3
15°	1547.9	1546.8	1551.6	1554.7	1550.5	1546.3	1538.9	1525.8	1514.7	1503.7	1469.4
17.5°	1564.8	1564.2	1576.3	1584.8	1582.7	1575.3	1565.3	1550.5	1541.6	1532.1	1489.4
20°	1601.6	1604.3	1619.0	1630.1	1619.5	1609.0	1592.7	1572.1	1567.4	1563.2	1510.0
22.5°	1671.1	1673.8	1684.3	1688.5	1661.1	1645.9	1623.2	1596.9	1593.7	1596.9	1534.7
25°	1779.6	1777.0	1775.4	1759.6	1709.6	1685.9	1656.9	1629.5	1631.1	1645.3	1569.5
27.5°	1923.4	1909.2	1887.1	1839.7	1760.2	1733.8	1698.5	1673.3	1683.3	1710.6	1621.6
30°	2072.5	2056.7	2005.6	1928.2	1826.5	1797.5	1758.0	1729.6	1755.9	1799.1	1691.2
32.5°	2210.5	2208.4	2133.6	2034.0	1918.2	1892.9	1853.4	1821.2	1863.9	1929.7	1795.4
35°	2361.1	2365.8	2276.3	2156.7	2041.9	2015.6	1987.2	1962.9	2019.8	2110.4	1946.6
37.5°	2522.3	2531.7	2425.9	2291.0	2183.1	2172.0	2155.2	2144.6	2232.6	2357.9	2157.8
40°	2737.7	2728.2	2581.2	2442.7	2356.4	2355.8	2350.6	2363.2	2509.6	2681.3	2429.0
42.5°	2968.4	2940.4	2746.1	2605.5	2546.5	2564.4	2574.9	2626.5	2843.0	3074.2	2759.8
45°	3216.9	3154.3	2917.3	2777.7	2757.7	2795.6	2831.4	2943.6	3235.4	3521.4	3122.1
47.5°	3415.5	3354.9	3094.2	2958.3	3002.1	3059.5	3128.5	3305.9	3674.6	3983.3	3479.8
50°	3571.9	3532.4	3272.8	3169.0	3271.2	3359.7	3472.4	3716.2	4131.8	4433.0	3811.0
52.5°	3723.6	3694.1	3452.9	3385.0	3587.2	3709.4	3862.6	4156.5	4600.5	4875.4	4089.6
55°	3860.5	3839.5	3646.7	3654.1	3959.0	4118.1	4310.8	4657.9	5111.4	5269.9	4325.6
57.5°	4014.9	3988.0	3867.9	3991.7	4436.7	4643.2	4893.9	5221.5	5590.7	5620.7	4505.2
60°	4170.2	4147.1	4113.3	4381.4	5043.5	5260.4	5498.0	5767.6	6076.8	5893.0	4494.7
62.5°	4305.1	4307.7	4367.2	4790.7	5637.5	5888.8	6178.4	6444.9	6516.6	5940.4	4162.3
65°	4533.6	4575.2	4752.7	5370.0	6473.9	6809.9	7165.4	7122.8	6638.2	5497.5	3449.7
67.5°	4805.4	4878.6	5238.3	6142.1	7531.0	7977.0	8114.5	7276.0	6151.1	4468.9	2459.1
70°	4778.0	4878.6	5447.9	6717.8	8402.1	8701.2	8284.1	6585.0	4884.4	2919.4	1306.2
72.5°	4242.9	4386.7	5020.8	6453.9	8127.7	8101.3	7191.8	4909.2	2902.0	1172.4	510.3
75°	3233.8	3379.2	3924.8	5098.8	6423.9	6202.7	5103.0	2711.9	1101.3	465.6	321.8
77.5°	1860.2	1972.9	2394.3	3126.9	4075.4	3848.4	2840.4	1206.1	536.2	324.4	251.2
80°	1038.6	1101.3	1357.2	1586.4	1997.2	1830.7	1270.9	749.5	400.3	235.4	193.8
82.5°	821.1	876.9	1097.6	1000.7	912.2	841.6	730.0	667.3	319.7	148.5	115.9
85°	717.3	770.5	929.1	787.9	623.1	571.4	593.0	656.8	248.6	89.5	99.0
87.5°	664.7	735.8	827.9	607.3	485.1	429.8	547.2	720.0	80.1	55.8	40.0
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°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1553.7	1545.3	1531.6	1519.5	1500.5	1490.5	1479.4	1471.5	1465.2	1459.9	1468.4
5°	1505.8	1490.0	1461.0	1429.9	1393.1	1364.1	1339.9	1317.2	1301.4	1290.9	1298.3
7.5°	1460.5	1434.7	1389.4	1333.0	1269.8	1216.1	1171.9	1132.9	1106.0	1088.6	1095.5
10°	1434.7	1402.5	1332.5	1244.0	1150.8	1067.0	997.5	937.5	895.9	872.2	875.9
12.5°	1428.3	1386.7	1289.8	1168.2	1040.7	924.3	826.4	743.1	684.7	654.1	655.2
15°	1433.1	1379.9	1249.8	1095.5	934.3	787.4	665.2	564.1	496.1	461.4	460.8
17.5°	1441.0	1374.6	1207.7	1017.0	826.4	655.7	519.3	420.3	360.2	332.3	330.2
20°	1449.4	1366.2	1160.3	932.2	714.2	533.5	406.6	329.2	291.3	276.0	274.9
22.5°	1461.5	1358.8	1111.3	842.7	604.1	434.5	334.4	282.3	262.3	254.4	253.3
25°	1481.0	1355.1	1059.1	749.5	505.1	363.4	291.3	259.1	247.5	242.3	241.7
27.5°	1513.7	1360.4	1010.2	658.9	424.5	315.5	267.0	247.5	239.1	234.4	233.8
30°	1555.8	1376.7	958.6	573.0	361.8	282.8	252.3	239.6	232.8	228.1	228.1
32.5°	1625.9	1404.1	904.3	498.8	317.1	260.2	241.2	232.8	227.0	223.3	222.8
35°	1729.1	1455.7	853.7	437.1	284.9	243.9	231.7	225.4	221.2	219.1	219.1
37.5°	1879.2	1537.4	809.0	392.9	265.4	232.8	222.8	218.0	215.4	215.4	215.4
40°	2080.9	1650.1	772.6	363.4	254.4	224.9	215.9	212.3	210.7	211.2	211.2
42.5°	2330.0	1796.5	748.4	342.9	249.1	220.2	211.2	208.0	206.5	205.9	206.5
45°	2613.9	1962.9	745.8	327.6	243.9	217.0	208.0	204.9	201.7	199.6	199.6
47.5°	2889.9	2132.0	767.4	322.3	238.1	213.3	205.4	202.2	197.5	192.8	192.8
50°	3133.7	2275.8	796.3	324.4	236.0	208.0	201.2	199.6	192.2	187.0	186.4
52.5°	3327.5	2386.4	820.0	330.8	238.1	204.4	195.9	196.5	188.6	182.8	182.2
55°	3482.9	2459.1	813.7	337.1	242.8	202.2	191.2	192.2	185.9	180.1	180.1
57.5°	3550.9	2432.2	743.7	331.8	246.5	202.8	187.5	191.7	186.4	181.2	181.2
60°	3405.0	2193.6	612.5	308.6	241.7	201.2	185.9	193.8	193.3	188.0	187.5
62.5°	2963.6	1766.5	475.1	274.4	225.4	193.3	181.7	193.3	199.1	197.5	197.0
65°	2284.2	1258.2	362.9	237.5	203.3	180.1	170.6	181.2	189.1	191.2	190.7
67.5°	1482.6	771.1	279.7	202.8	178.5	164.8	156.4	161.2	162.7	162.7	161.7
70°	728.9	415.0	222.8	170.6	153.3	148.5	143.8	141.1	138.5	136.4	136.4
72.5°	359.7	271.2	183.3	144.3	132.2	130.1	129.0	125.9	123.8	121.1	120.1
75°	266.0	220.7	155.9	121.7	113.8	111.7	113.8	111.1	110.6	108.5	107.4
77.5°	218.6	188.0	134.3	104.3	97.4	93.7	96.9	97.4	98.0	94.8	93.7
80°	177.5	159.1	112.2	86.4	80.1	77.4	79.5	83.7	84.8	80.1	77.9
82.5°	128.0	130.1	90.6	67.4	62.1	60.0	64.3	69.5	70.6	63.7	62.1
85°	107.4	108.5	69.5	47.9	42.7	39.5	46.3	51.6	55.3	48.5	46.9
87.5°	44.8	63.7	40.0	26.9	23.7	20.5	24.8	27.4	33.2	30.5	30.0
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)