

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: P193790

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193790  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 9443 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

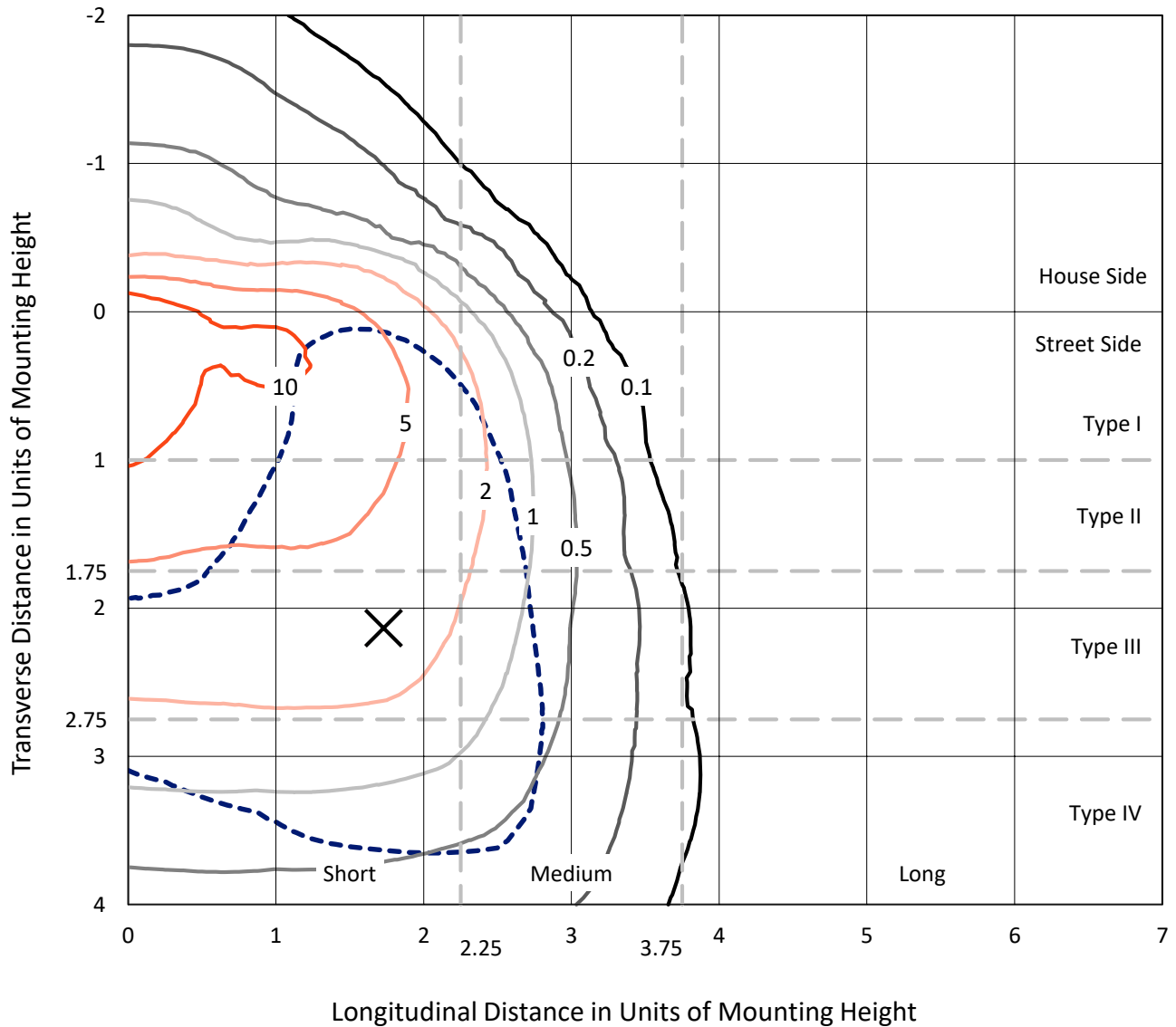
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

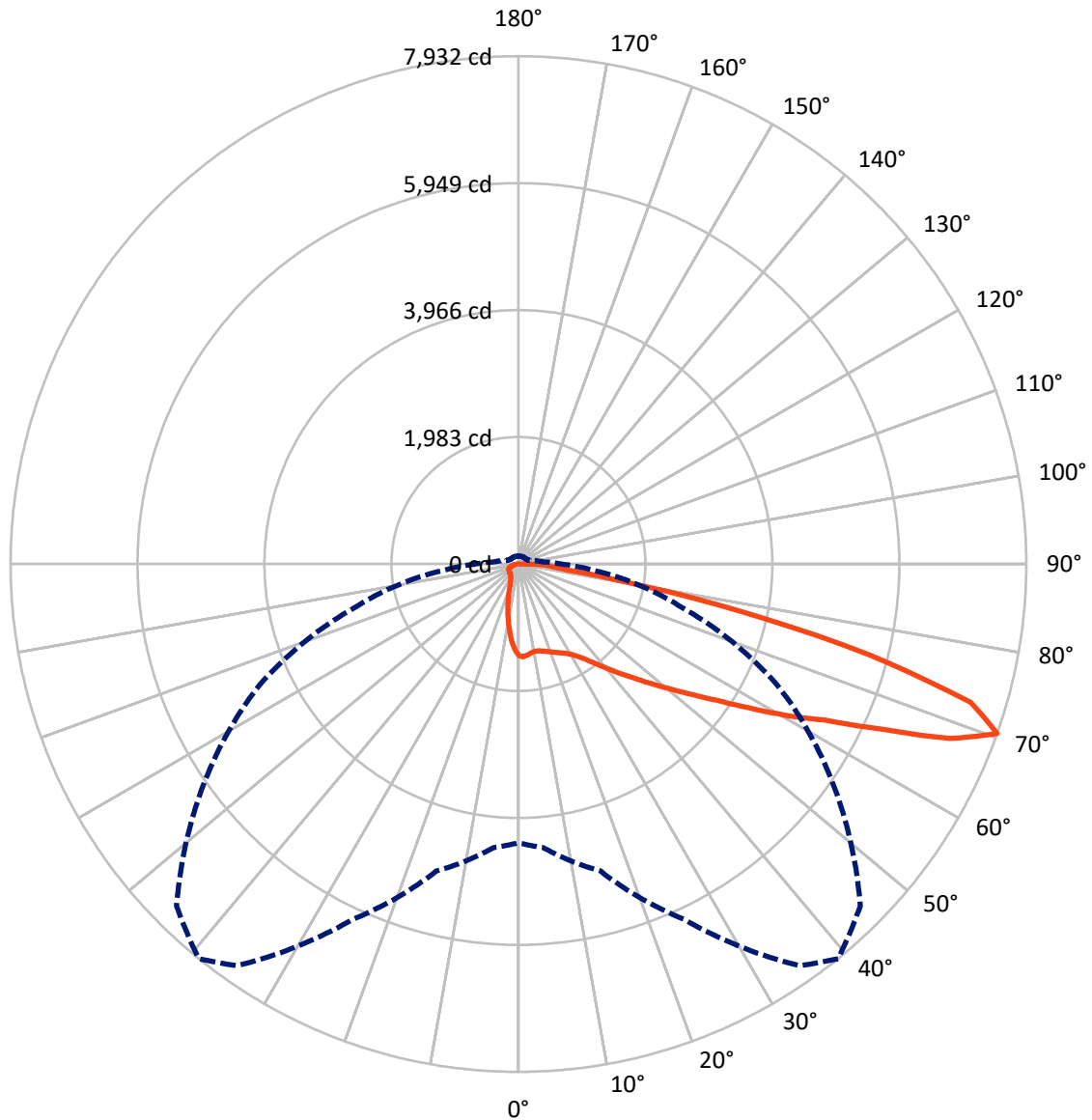
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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
<b>House Side</b>	Lumens	1074.0	0.0	1074.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	8369.0	0.0	8369.0
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	9443.0	0.0	9443.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	1.3
10°-20°	307.5	3.3
20°-30°	478.8	5.1
30°-40°	745.9	7.9
40°-50°	1252.3	13.3
50°-60°	1989.4	21.1
60°-70°	2653.6	28.1
70°-80°	1602.4	17.0
80°-90°	290.0	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°	9443.0	100.0
0°-180°	9443.0	100.0



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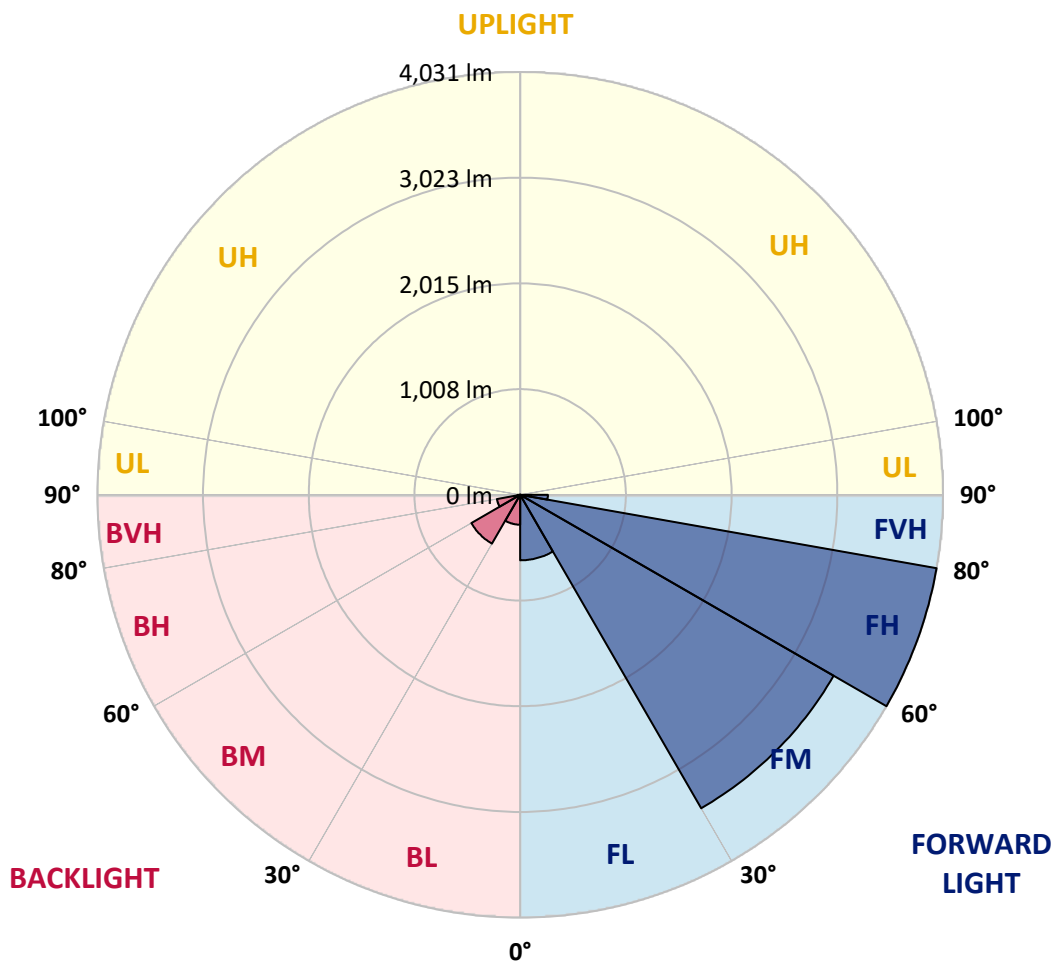
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.5	6.6			
FM (30°-60°)	3450.1	36.5			
FH (60°-80°)	4030.5	42.7			G2/5000
FVH (80°-90°)	263.9	2.8			G3/500
BL (0°-30°)	284.9	3.0	B1/500		
BM (30°-60°)	537.5	5.7	B1/1000		
BH (60°-80°)	225.5	2.4	B1/500		G1/500
BVH (80°-90°)	26.1	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°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1461.4	1461.0	1457.1	1454.2	1451.8	1450.9	1452.8	1445.6	1439.4	1431.7	1423.5
5°	1450.4	1449.9	1443.7	1437.9	1432.2	1430.2	1429.8	1416.8	1409.1	1397.6	1382.2
7.5°	1438.4	1436.0	1427.8	1418.2	1408.1	1403.3	1398.5	1381.7	1373.1	1361.6	1343.8
10°	1425.9	1423.0	1415.3	1405.7	1396.1	1388.9	1380.8	1364.5	1355.3	1346.7	1326.1
12.5°	1412.9	1410.5	1408.6	1404.3	1397.6	1391.3	1385.1	1371.2	1361.6	1351.5	1327.5
15°	1411.0	1410.1	1414.4	1417.3	1413.4	1409.6	1402.9	1390.9	1380.8	1370.7	1339.5
17.5°	1426.4	1425.9	1437.0	1444.6	1442.7	1436.0	1426.9	1413.4	1405.3	1396.6	1357.7
20°	1460.0	1462.4	1475.8	1485.9	1476.3	1466.7	1451.8	1433.1	1428.8	1425.0	1376.5
22.5°	1523.4	1525.8	1535.4	1539.2	1514.3	1500.3	1479.7	1455.7	1452.8	1455.7	1399.0
25°	1622.3	1619.9	1618.4	1604.0	1558.4	1536.8	1510.4	1485.4	1486.9	1499.8	1430.7
27.5°	1753.3	1740.4	1720.2	1677.0	1604.5	1580.5	1548.3	1525.3	1534.4	1559.4	1478.2
30°	1889.2	1874.8	1828.2	1757.7	1665.0	1638.6	1602.6	1576.7	1600.7	1640.0	1541.6
32.5°	2015.0	2013.1	1944.9	1854.2	1748.5	1725.5	1689.5	1660.2	1699.1	1759.1	1636.7
35°	2152.3	2156.6	2075.0	1966.0	1861.4	1837.4	1811.4	1789.4	1841.2	1923.8	1774.5
37.5°	2299.2	2307.9	2211.4	2088.5	1990.0	1980.0	1964.6	1955.0	2035.2	2149.4	1967.0
40°	2495.6	2486.9	2353.0	2226.7	2148.0	2147.5	2142.7	2154.2	2287.7	2444.2	2214.2
42.5°	2705.9	2680.4	2503.3	2375.1	2321.3	2337.6	2347.2	2394.3	2591.6	2802.4	2515.8
45°	2932.5	2875.3	2659.3	2532.1	2513.8	2548.4	2581.0	2683.3	2949.3	3210.0	2846.1
47.5°	3113.5	3058.3	2820.6	2696.8	2736.6	2788.9	2851.8	3013.6	3349.7	3631.0	3172.1
50°	3256.1	3220.1	2983.4	2888.8	2981.9	3062.6	3165.3	3387.6	3766.4	4041.0	3474.0
52.5°	3394.3	3367.5	3147.6	3085.6	3270.0	3381.4	3521.1	3789.0	4193.7	4444.3	3728.0
55°	3519.2	3500.0	3324.2	3331.0	3608.9	3753.9	3929.7	4246.0	4659.4	4803.9	3943.1
57.5°	3659.8	3635.4	3525.9	3638.7	4044.4	4232.6	4461.1	4759.8	5096.3	5123.7	4106.8
60°	3801.5	3780.3	3749.6	3994.0	4597.5	4795.3	5011.8	5257.6	5539.5	5371.9	4097.2
62.5°	3924.4	3926.8	3981.0	4367.0	5139.0	5368.1	5632.1	5875.0	5940.3	5415.1	3794.3
65°	4132.7	4170.7	4332.5	4895.2	5901.5	6207.8	6531.8	6492.9	6051.2	5011.3	3144.7
67.5°	4380.5	4447.2	4775.1	5599.0	6865.0	7271.7	7397.0	6632.7	5607.1	4073.7	2241.6
70°	4355.5	4447.2	4966.2	6123.7	7659.1	7931.8	7551.6	6002.8	4452.5	2661.2	1190.7
72.5°	3867.7	3998.8	4576.8	5883.2	7409.0	7385.0	6555.8	4475.1	2645.4	1068.7	465.2
75°	2947.8	3080.4	3577.7	4647.9	5855.8	5654.2	4651.7	2472.1	1003.9	424.4	293.3
77.5°	1695.7	1798.5	2182.6	2850.4	3715.1	3508.1	2589.2	1099.4	488.7	295.7	229.0
80°	946.8	1003.9	1237.2	1446.1	1820.6	1668.8	1158.5	683.2	364.9	214.6	176.7
82.5°	748.5	799.4	1000.5	912.2	831.5	767.2	665.4	608.3	291.4	135.4	105.6
85°	653.9	702.4	846.9	718.2	568.0	520.9	540.6	598.7	226.6	81.6	90.3
87.5°	605.9	670.7	754.7	553.6	442.2	391.8	498.8	656.3	73.0	50.9	36.5
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°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1416.3	1408.6	1396.1	1385.1	1367.8	1358.7	1348.6	1341.4	1335.7	1330.9	1338.5
5°	1372.6	1358.2	1331.8	1303.5	1269.9	1243.5	1221.4	1200.7	1186.3	1176.7	1183.5
7.5°	1331.3	1307.8	1266.5	1215.1	1157.5	1108.6	1068.2	1032.7	1008.2	992.4	998.6
10°	1307.8	1278.5	1214.7	1134.0	1049.0	972.7	909.3	854.6	816.7	795.1	798.4
12.5°	1302.0	1264.1	1175.8	1064.9	948.7	842.6	753.3	677.4	624.1	596.3	597.3
15°	1306.4	1257.9	1139.3	998.6	851.7	717.8	606.4	514.2	452.3	420.6	420.1
17.5°	1313.6	1253.1	1100.9	927.1	753.3	597.7	473.4	383.1	328.4	302.9	301.0
20°	1321.2	1245.4	1057.7	849.8	651.0	486.3	370.6	300.1	265.5	251.6	250.6
22.5°	1332.3	1238.7	1013.0	768.2	550.7	396.1	304.9	257.3	239.1	231.9	230.9
25°	1350.1	1235.3	965.5	683.2	460.4	331.3	265.5	236.2	225.6	220.8	220.4
27.5°	1379.8	1240.1	920.8	600.6	387.0	287.6	243.4	225.6	218.0	213.6	213.2
30°	1418.2	1255.0	873.8	522.4	329.8	257.8	230.0	218.4	212.2	207.9	207.9
32.5°	1482.1	1280.0	824.3	454.7	289.0	237.2	219.9	212.2	206.9	203.6	203.1
35°	1576.2	1327.0	778.3	398.5	259.7	222.3	211.2	205.5	201.6	199.7	199.7
37.5°	1713.0	1401.4	737.4	358.2	242.0	212.2	203.1	198.8	196.4	196.4	196.4
40°	1896.9	1504.2	704.3	331.3	231.9	205.0	196.8	193.5	192.0	192.5	192.5
42.5°	2124.0	1637.6	682.2	312.5	227.1	200.7	192.5	189.6	188.2	187.7	188.2
45°	2382.8	1789.4	679.8	298.6	222.3	197.8	189.6	186.8	183.9	182.0	182.0
47.5°	2634.3	1943.5	699.5	293.8	217.0	194.4	187.2	184.4	180.0	175.7	175.7
50°	2856.6	2074.5	725.9	295.7	215.1	189.6	183.4	182.0	175.2	170.4	170.0
52.5°	3033.3	2175.4	747.5	301.5	217.0	186.3	178.6	179.1	171.9	166.6	166.1
55°	3174.9	2241.6	741.8	307.3	221.3	184.4	174.3	175.2	169.5	164.2	164.2
57.5°	3236.9	2217.1	677.9	302.5	224.7	184.8	170.9	174.8	170.0	165.2	165.2
60°	3103.9	1999.6	558.4	281.3	220.4	183.4	169.5	176.7	176.2	171.4	170.9
62.5°	2701.6	1610.3	433.1	250.1	205.5	176.2	165.6	176.2	181.5	180.0	179.6
65°	2082.2	1147.0	330.8	216.5	185.3	164.2	155.6	165.2	172.4	174.3	173.8
67.5°	1351.5	702.9	254.9	184.8	162.8	150.3	142.6	146.9	148.4	148.4	147.4
70°	664.5	378.3	203.1	155.6	139.7	135.4	131.1	128.7	126.3	124.3	124.3
72.5°	327.9	247.3	167.1	131.5	120.5	118.6	117.6	114.7	112.8	110.4	109.5
75°	242.5	201.2	142.1	110.9	103.7	101.8	103.7	101.3	100.8	98.9	97.9
77.5°	199.2	171.4	122.4	95.1	88.8	85.5	88.3	88.8	89.3	86.4	85.5
80°	161.8	145.0	102.3	78.7	73.0	70.6	72.5	76.3	77.3	73.0	71.1
82.5°	116.7	118.6	82.6	61.5	56.7	54.7	58.6	63.4	64.3	58.1	56.7
85°	97.9	98.9	63.4	43.7	38.9	36.0	42.2	47.1	50.4	44.2	42.7
87.5°	40.8	58.1	36.5	24.5	21.6	18.7	22.6	25.0	30.2	27.8	27.4
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)