

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: P194490

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8025 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

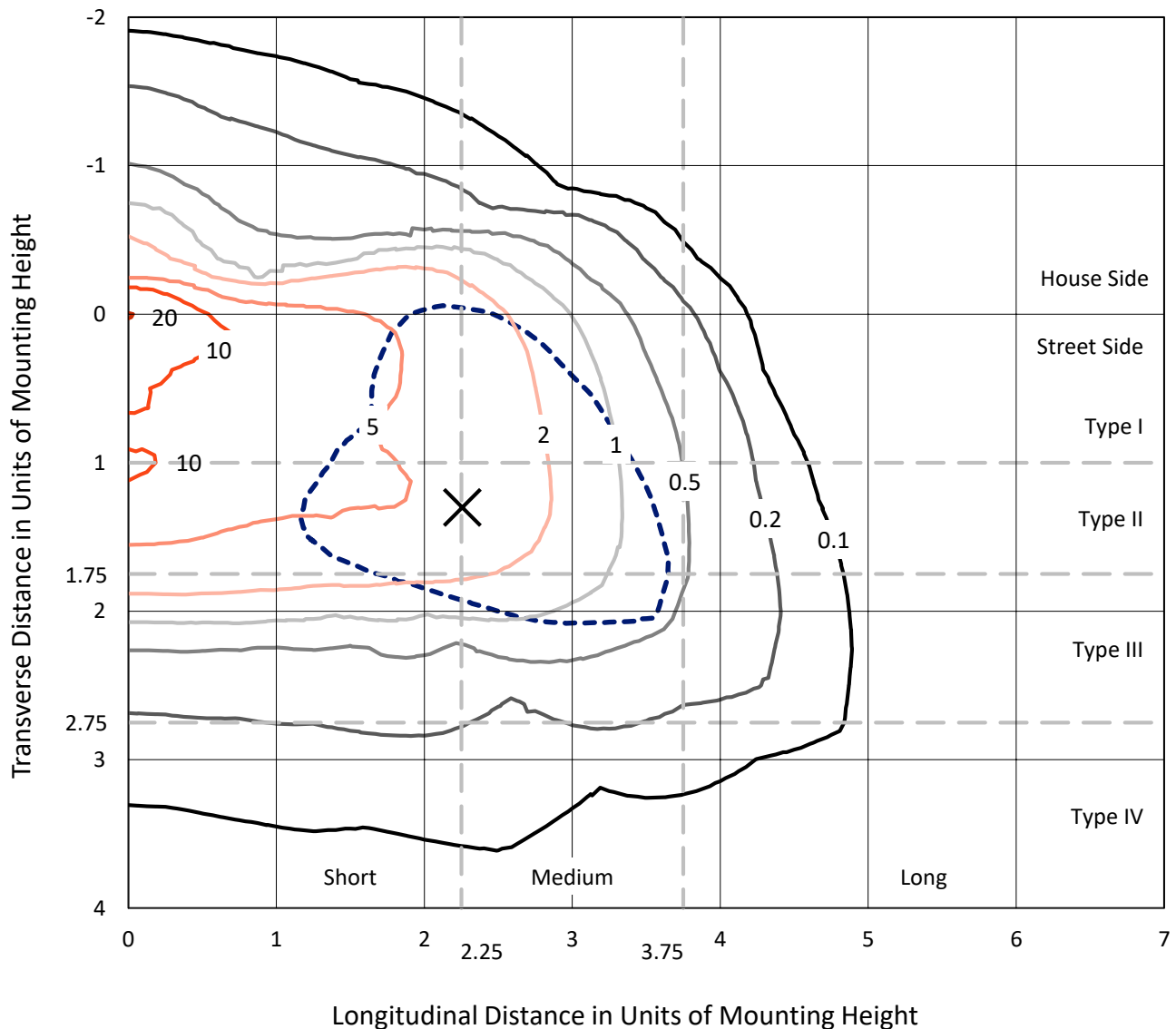


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

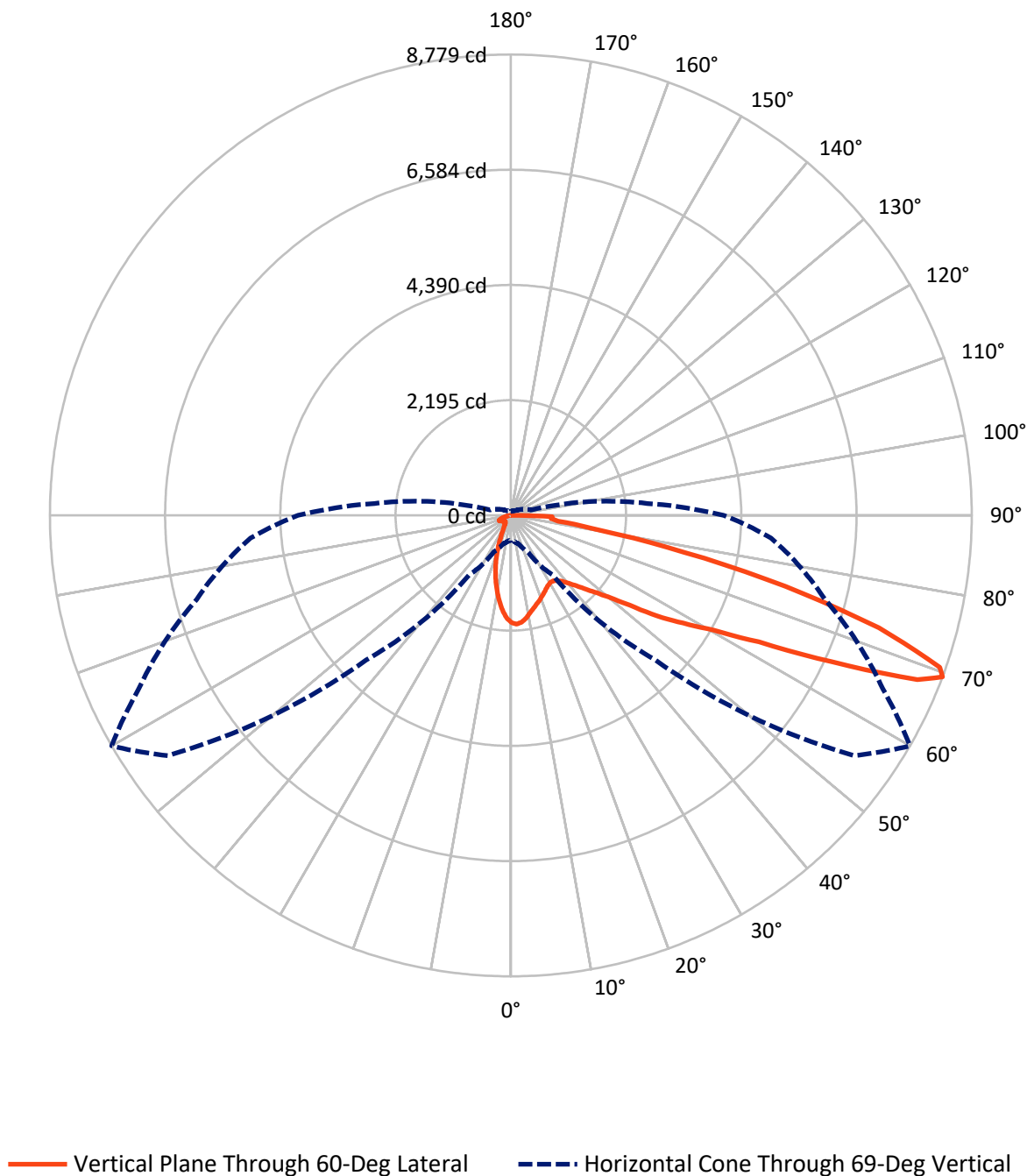


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.7	0.0	1141.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6883.3	0.0	6883.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	8025.0	0.0	8025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	2.2
10°-20°	368.4	4.6
20°-30°	469.4	5.8
30°-40°	645.3	8.0
40°-50°	1047.0	13.0
50°-60°	1679.2	20.9
60°-70°	2234.9	27.8
70°-80°	1206.6	15.0
80°-90°	201.3	2.5
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°	8025.0	100.0
0°-180°	8025.0	100.0

Coefficient of Utilization



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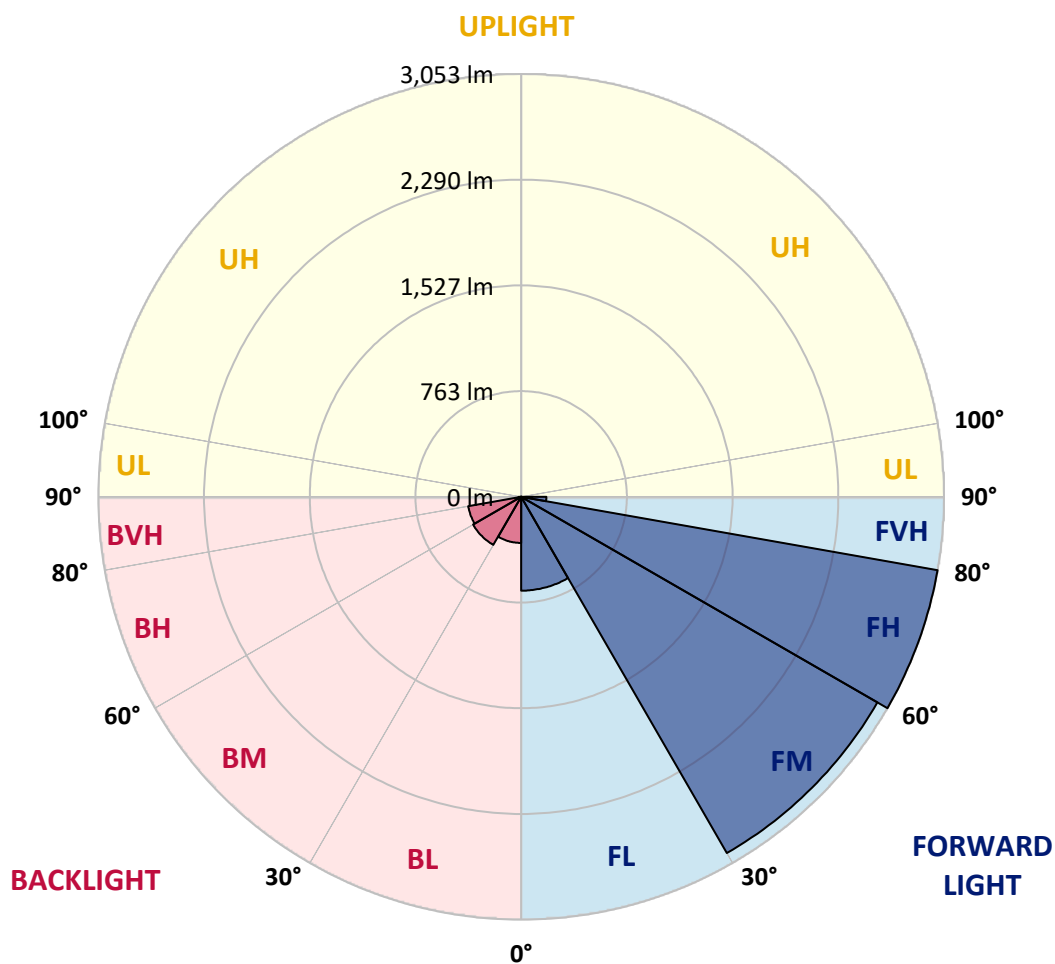
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.6	8.4			
FM	(30°-60°)	2970.4	37.0			
FH	(60°-80°)	3053.4	38.0			G2/5000
FVH	(80°-90°)	181.9	2.3			G2/225
BL	(0°-30°)	333.1	4.2	B1/500		
BM	(30°-60°)	401.1	5.0	B1/1000		
BH	(60°-80°)	388.1	4.8	B1/500		G1/500
BVH	(80°-90°)	19.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9
2.5°	2086.8	2091.4	2089.5	2088.3	2091.8	2086.4	2075.1	2071.6	2066.2	2053.4	2031.7
5°	2008.5	2022.4	2021.6	2032.1	2049.5	2054.2	2049.2	2049.9	2039.9	2024.0	1987.9
7.5°	1873.2	1879.0	1882.1	1904.9	1936.7	1962.3	1984.0	1991.0	1986.4	1972.8	1926.3
10°	1733.6	1738.3	1745.6	1772.4	1812.7	1848.0	1889.1	1912.7	1922.8	1920.5	1868.5
12.5°	1613.8	1618.5	1628.2	1658.4	1706.5	1749.9	1809.6	1839.0	1863.1	1877.4	1821.6
15°	1506.4	1516.5	1525.8	1560.7	1614.6	1671.6	1739.0	1776.2	1813.5	1845.6	1780.1
17.5°	1422.7	1432.8	1438.2	1470.0	1527.4	1597.1	1676.2	1720.0	1766.6	1819.3	1739.0
20°	1374.2	1378.9	1376.6	1394.4	1446.0	1520.0	1613.8	1664.6	1720.8	1794.5	1697.9
22.5°	1360.7	1361.1	1352.5	1350.6	1383.9	1446.3	1547.1	1608.8	1677.8	1778.2	1662.7
25°	1393.6	1392.5	1369.2	1350.2	1353.7	1390.1	1482.8	1554.5	1641.7	1774.7	1635.5
27.5°	1466.9	1470.4	1435.9	1400.2	1364.9	1363.8	1433.9	1509.5	1612.3	1790.6	1623.9
30°	1569.6	1575.4	1538.6	1493.3	1427.0	1372.3	1414.9	1482.8	1594.0	1823.5	1622.0
32.5°	1682.0	1688.2	1660.3	1612.7	1525.8	1425.0	1428.1	1485.1	1593.3	1869.7	1635.1
35°	1801.8	1808.8	1794.5	1754.1	1657.6	1522.3	1478.5	1522.7	1618.5	1940.2	1670.4
37.5°	1935.6	1946.4	1950.3	1911.9	1808.8	1650.6	1561.1	1594.0	1675.5	2038.3	1735.2
40°	2128.2	2143.4	2142.2	2087.1	1982.1	1823.9	1688.6	1697.2	1764.2	2169.3	1838.7
42.5°	2497.3	2500.4	2403.9	2284.1	2172.8	2006.1	1839.0	1832.1	1886.7	2335.2	1991.0
45°	2966.7	2953.9	2739.2	2507.8	2372.1	2215.5	2034.8	2000.7	2042.2	2537.6	2181.7
47.5°	3356.3	3326.9	3055.5	2736.1	2583.0	2443.0	2264.7	2205.0	2227.9	2767.1	2428.3
50°	3491.6	3469.5	3244.7	2926.0	2782.6	2720.6	2547.7	2463.2	2469.4	3040.8	2717.1
52.5°	3462.6	3459.5	3309.4	3051.3	2969.5	3012.1	2948.5	2834.2	2773.7	3344.7	3028.8
55°	3393.9	3400.5	3346.3	3197.0	3183.1	3293.5	3472.2	3387.7	3199.7	3651.3	3350.9
57.5°	3155.5	3172.6	3292.0	3380.4	3526.9	3691.3	3894.0	3870.0	3658.3	3982.8	3733.9
60°	2542.3	2581.8	2902.0	3344.7	3880.8	4394.9	4485.6	4429.8	4131.3	4394.1	4239.8
62.5°	1781.3	1822.4	2203.1	2895.8	3822.7	5189.6	5543.1	5302.4	4810.4	5000.0	4894.6
65°	953.6	973.4	1264.2	2009.2	3227.2	5353.5	7088.7	6722.4	5885.8	5747.0	5454.7
67.5°	526.1	536.9	648.2	1014.5	2067.0	4714.3	8073.3	8350.1	7229.8	6244.4	5352.8
69°	475.7	485.7	558.6	768.3	1383.2	3897.9	7977.2	8779.3	7819.0	6195.2	4976.0
70°	465.2	474.5	540.0	708.2	1119.6	3212.9	7655.1	8669.6	7959.4	6018.8	4647.2
72.5°	418.7	428.7	492.3	636.1	956.7	1601.8	6063.7	7330.2	7226.3	5218.6	3525.0
75°	390.4	399.7	507.4	623.0	916.0	1013.7	3997.5	5402.4	5312.1	3650.6	1900.7
77.5°	167.1	166.3	235.3	527.2	929.6	981.5	2148.0	3374.9	3079.2	1560.3	545.8
80°	111.6	109.7	111.6	155.1	852.5	987.0	1125.4	1713.1	1294.0	397.7	269.0
82.5°	96.1	94.6	98.1	94.6	299.7	1126.5	956.7	911.0	615.2	226.0	133.4
85°	64.7	62.0	84.5	84.9	141.5	1000.9	1077.7	769.5	497.8	134.1	65.9
87.5°	31.0	30.2	49.2	60.1	83.0	406.7	1209.1	788.5	502.0	68.6	31.4
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°	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9	2044.9
2.5°	2025.1	2009.2	1993.7	1975.1	1955.7	1934.0	1923.2	1912.3	1909.6	1906.5	1895.6
5°	1969.3	1946.8	1908.0	1865.4	1820.4	1776.6	1743.3	1722.4	1706.5	1698.3	1684.0
7.5°	1897.2	1864.2	1796.4	1722.7	1647.2	1578.2	1518.5	1480.9	1445.2	1428.5	1409.5
10°	1828.6	1779.3	1673.9	1565.4	1456.8	1352.5	1254.5	1185.1	1123.4	1088.9	1064.5
12.5°	1769.7	1702.2	1556.1	1409.1	1260.3	1111.8	964.9	849.4	752.8	702.0	676.1
15°	1712.3	1630.9	1444.0	1257.6	1066.4	864.5	671.4	540.4	460.5	428.7	417.9
17.5°	1660.3	1556.1	1331.6	1104.8	866.4	622.2	451.2	379.1	348.5	338.0	334.5
20°	1604.1	1480.5	1214.9	945.1	657.9	435.0	352.4	320.6	308.2	305.1	303.5
22.5°	1549.9	1406.0	1103.3	774.2	472.6	335.7	302.8	289.6	287.6	290.4	290.4
25°	1503.7	1339.4	982.7	595.4	347.0	282.6	271.0	267.9	275.2	285.3	287.3
27.5°	1469.2	1284.7	854.4	439.6	276.4	245.8	245.4	250.4	268.6	288.0	291.9
30°	1445.6	1232.7	717.2	317.1	231.8	216.3	222.5	233.4	260.1	287.6	295.0
32.5°	1433.6	1194.4	574.1	245.4	198.5	190.0	200.4	213.6	240.0	265.5	275.2
35°	1442.9	1166.1	439.2	204.7	175.2	168.6	179.5	192.3	207.8	218.6	226.0
37.5°	1477.7	1154.8	331.4	183.4	159.3	153.1	161.7	169.0	175.2	178.3	181.8
40°	1553.0	1166.8	265.5	172.5	150.4	142.7	146.1	148.9	152.7	155.8	157.4
42.5°	1663.8	1202.9	238.0	168.2	145.8	134.5	133.7	134.9	139.9	145.8	146.9
45°	1818.9	1266.5	236.1	171.0	143.4	127.9	124.4	126.0	133.7	142.7	144.2
47.5°	2017.0	1363.4	251.6	179.1	145.4	124.4	118.6	120.6	130.3	142.3	144.2
50°	2256.9	1498.7	277.6	191.1	153.9	125.2	116.7	117.8	127.9	141.1	143.0
52.5°	2540.3	1690.6	305.9	202.7	162.8	130.3	118.2	115.5	124.8	136.5	138.8
55°	2855.5	1936.7	334.9	213.2	167.5	136.5	121.3	112.4	119.0	128.7	130.6
57.5°	3242.4	2281.0	385.3	223.3	170.6	140.7	124.4	109.3	111.6	118.6	120.2
60°	3766.1	2767.9	474.1	240.0	177.5	142.3	124.1	106.6	104.3	108.2	108.9
62.5°	4393.7	3296.6	548.1	260.9	189.2	143.4	121.7	104.7	98.1	98.1	98.9
65°	4766.2	3438.1	507.1	278.3	198.9	142.3	119.0	102.7	93.4	89.2	89.5
67.5°	4450.3	3023.7	434.6	281.8	198.5	136.8	114.7	99.2	88.8	82.2	81.8
69°	4054.5	2608.9	402.0	272.5	189.2	129.9	109.3	95.4	85.3	78.3	77.9
70°	3735.5	2355.8	380.7	262.4	179.1	124.8	105.1	91.9	82.6	76.0	75.2
72.5°	2715.9	1543.7	325.2	225.6	147.7	104.7	90.7	80.6	73.7	69.8	69.0
75°	1357.2	736.2	264.0	183.0	113.2	83.7	74.4	67.5	64.0	63.2	62.8
77.5°	445.8	337.3	188.8	136.5	84.1	65.5	60.1	55.0	54.3	56.6	55.8
80°	245.0	196.2	119.8	90.3	57.4	48.1	47.3	44.6	45.7	49.6	48.8
82.5°	124.8	102.0	74.0	54.3	38.8	34.5	37.6	36.1	37.6	41.1	40.7
85°	61.6	55.8	46.9	33.0	25.6	22.1	26.7	27.9	28.7	31.4	31.4
87.5°	35.7	33.0	24.8	15.5	12.8	11.6	15.5	15.1	17.8	19.4	19.0
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)