

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: P193700

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193700
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-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 8030 lumens
Efficiency: N/A
Efficacy: 94.5 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): 85
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

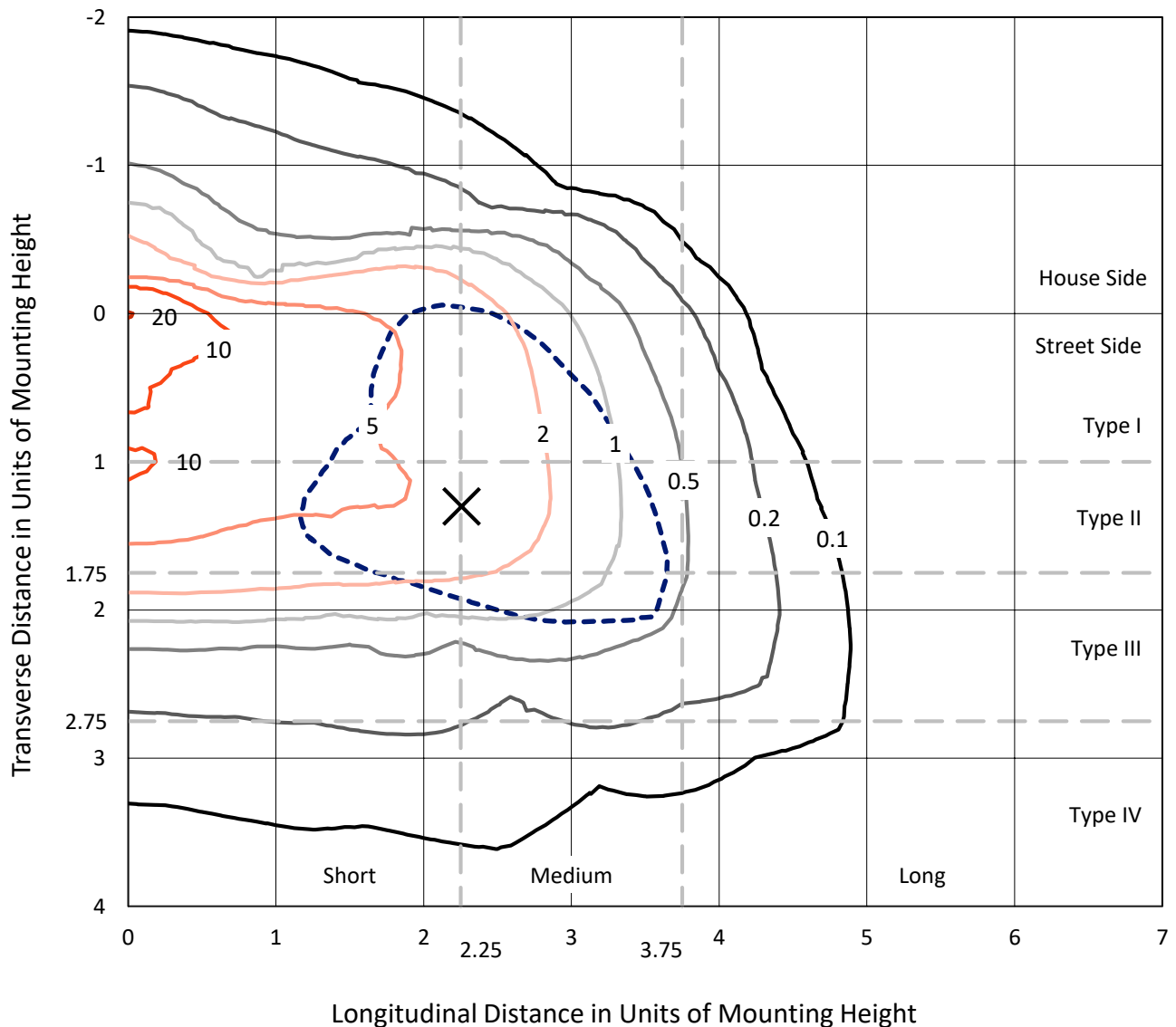


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Iso-Footcandle Lines of Horizontal Illumination

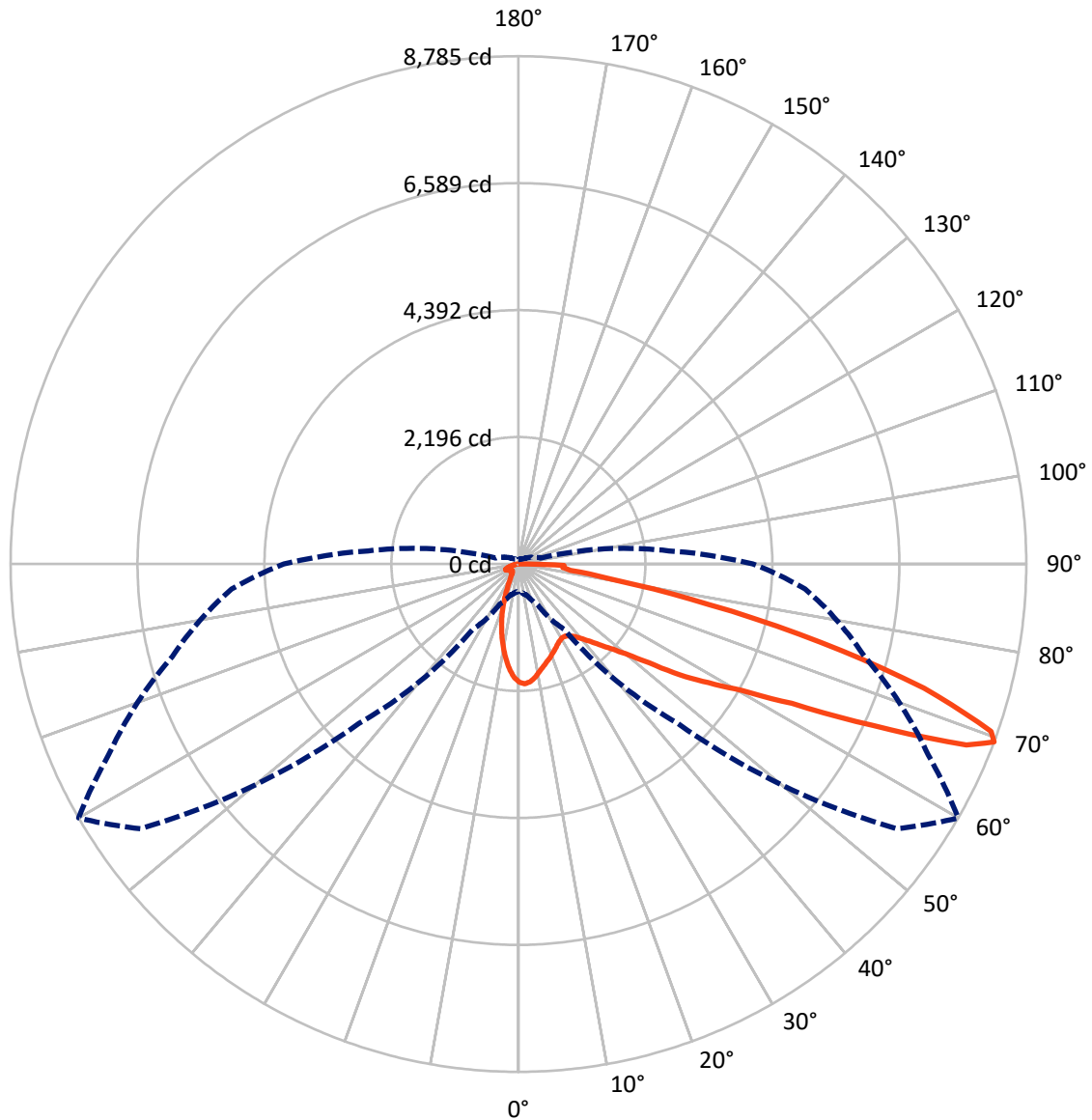
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.4	0.0	1142.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6887.6	0.0	6887.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	8030.0	0.0	8030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	2.2
10°-20°	368.6	4.6
20°-30°	469.7	5.8
30°-40°	645.7	8.0
40°-50°	1047.7	13.0
50°-60°	1680.2	20.9
60°-70°	2236.2	27.8
70°-80°	1207.4	15.0
80°-90°	201.5	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°	8030.0	100.0
0°-180°	8030.0	100.0

Coefficient of Utilization



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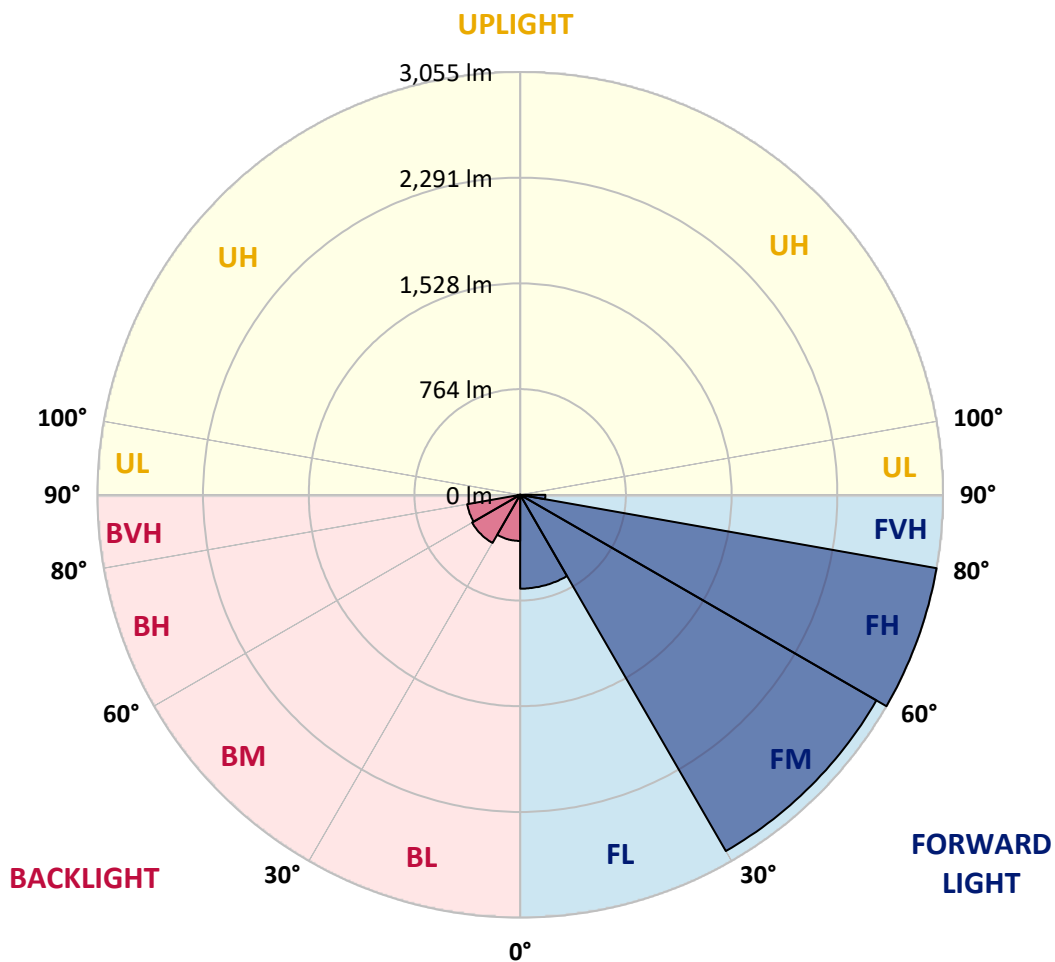
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.0	8.4			
FM (30°-60°)	2972.2	37.0			
FH (60°-80°)	3055.3	38.0			G2/5000
FVH (80°-90°)	182.1	2.3			G2/225
BL (0°-30°)	333.3	4.2	B1/500		
BM (30°-60°)	401.3	5.0	B1/1000		
BH (60°-80°)	388.4	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°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2088.1	2092.7	2090.8	2089.6	2093.1	2087.7	2076.4	2072.9	2067.5	2054.7	2033.0
5°	2009.7	2023.7	2022.9	2033.4	2050.8	2055.5	2050.4	2051.2	2041.1	2025.2	1989.1
7.5°	1874.3	1880.1	1883.2	1906.1	1937.9	1963.5	1985.3	1992.2	1987.6	1974.0	1927.5
10°	1734.7	1739.3	1746.7	1773.5	1813.8	1849.1	1890.2	1913.9	1924.0	1921.7	1869.7
12.5°	1614.8	1619.5	1629.2	1659.4	1707.5	1751.0	1810.7	1840.2	1864.2	1878.6	1822.7
15°	1507.4	1517.5	1526.8	1561.7	1615.6	1672.6	1740.1	1777.4	1814.6	1846.8	1781.2
17.5°	1423.6	1433.7	1439.1	1470.9	1528.3	1598.1	1677.3	1721.1	1767.7	1820.4	1740.1
20°	1375.1	1379.8	1377.4	1395.3	1446.9	1521.0	1614.8	1665.6	1721.9	1795.6	1699.0
22.5°	1361.5	1361.9	1353.4	1351.4	1384.8	1447.3	1548.1	1609.8	1678.8	1779.3	1663.7
25°	1394.5	1393.3	1370.1	1351.1	1354.5	1391.0	1483.7	1555.5	1642.8	1775.8	1636.5
27.5°	1467.8	1471.3	1436.8	1401.1	1365.8	1364.6	1434.8	1510.5	1613.3	1791.7	1624.9
30°	1570.6	1576.4	1539.6	1494.2	1427.9	1373.2	1415.8	1483.7	1595.0	1824.7	1623.0
32.5°	1683.1	1689.3	1661.4	1613.7	1526.8	1425.9	1429.0	1486.0	1594.3	1870.8	1636.2
35°	1803.0	1809.9	1795.6	1755.2	1658.7	1523.3	1479.4	1523.7	1619.5	1941.4	1671.5
37.5°	1936.8	1947.6	1951.5	1913.1	1809.9	1651.7	1562.1	1595.0	1676.5	2039.6	1736.2
40°	2129.6	2144.7	2143.5	2088.4	1983.3	1825.1	1689.7	1698.2	1765.3	2170.7	1839.8
42.5°	2498.8	2501.9	2405.4	2285.5	2174.2	2007.4	1840.2	1833.2	1887.9	2336.7	1992.2
45°	2968.6	2955.8	2740.9	2509.3	2373.6	2216.8	2036.1	2001.9	2043.5	2539.2	2183.1
47.5°	3358.4	3328.9	3057.4	2737.8	2584.6	2444.5	2266.1	2206.4	2229.3	2768.8	2429.8
50°	3493.8	3471.7	3246.7	2927.9	2784.3	2722.3	2549.3	2464.7	2470.9	3042.7	2718.8
52.5°	3464.7	3461.6	3311.5	3053.2	2971.3	3014.0	2950.4	2835.9	2775.4	3346.8	3030.7
55°	3396.1	3402.6	3348.3	3199.0	3185.0	3295.6	3474.4	3389.8	3201.7	3653.6	3353.0
57.5°	3157.5	3174.6	3294.0	3382.5	3529.1	3693.6	3896.4	3872.4	3660.6	3985.3	3736.2
60°	2543.8	2583.4	2903.8	3346.8	3883.3	4397.6	4488.4	4432.5	4133.8	4396.8	4242.4
62.5°	1782.4	1823.5	2204.4	2897.6	3825.1	5192.8	5546.6	5305.7	4813.4	5003.1	4897.6
65°	954.2	974.0	1264.9	2010.5	3229.3	5356.9	7093.1	6726.6	5889.5	5750.6	5458.1
67.5°	526.4	537.2	648.6	1015.1	2068.3	4717.2	8078.4	8355.3	7234.3	6248.3	5356.1
69°	476.0	486.0	559.0	768.8	1384.0	3900.3	7982.2	8784.7	7823.9	6199.0	4979.1
70°	465.5	474.8	540.3	708.7	1120.3	3214.9	7659.8	8675.0	7964.3	6022.5	4650.1
72.5°	418.9	429.0	492.6	636.5	957.3	1602.8	6067.5	7334.8	7230.8	5221.9	3527.2
75°	390.6	399.9	507.8	623.4	916.6	1014.4	4000.0	5405.8	5315.4	3652.8	1901.9
77.5°	167.2	166.4	235.5	527.5	930.2	982.2	2149.3	3377.0	3081.1	1561.3	546.2
80°	111.7	109.8	111.7	155.2	853.0	987.6	1126.1	1714.1	1294.8	398.0	269.2
82.5°	96.2	94.6	98.1	94.6	299.8	1127.2	957.3	911.6	615.6	226.1	133.4
85°	64.8	62.1	84.6	84.9	141.6	1001.6	1078.4	770.0	498.1	134.2	65.9
87.5°	31.0	30.3	49.3	60.1	83.0	406.9	1209.9	789.0	502.3	68.7	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°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2026.4	2010.5	1995.0	1976.3	1956.9	1935.2	1924.4	1913.5	1910.8	1907.7	1896.8
5°	1970.5	1948.0	1909.2	1866.6	1821.6	1777.7	1744.4	1723.4	1707.5	1699.4	1685.0
7.5°	1898.4	1865.4	1797.5	1723.8	1648.2	1579.1	1519.4	1481.8	1446.1	1429.4	1410.4
10°	1829.7	1780.5	1674.9	1566.3	1457.7	1353.4	1255.2	1185.8	1124.1	1089.6	1065.2
12.5°	1770.8	1703.3	1557.0	1410.0	1261.1	1112.5	965.5	849.9	753.3	702.5	676.5
15°	1713.3	1631.9	1444.9	1258.3	1067.1	865.0	671.8	540.7	460.8	429.0	418.2
17.5°	1661.4	1557.0	1332.4	1105.5	867.0	622.6	451.5	379.4	348.7	338.2	334.8
20°	1605.1	1481.4	1215.7	945.7	658.3	435.2	352.6	320.8	308.4	305.3	303.7
22.5°	1550.8	1406.9	1104.0	774.6	472.8	335.9	302.9	289.8	287.8	290.5	290.5
25°	1504.7	1340.2	983.3	595.8	347.2	282.8	271.1	268.0	275.4	285.5	287.4
27.5°	1470.1	1285.5	854.9	439.9	276.6	245.9	245.5	250.6	268.8	288.2	292.1
30°	1446.5	1233.5	717.6	317.3	232.0	216.4	222.7	233.5	260.3	287.8	295.2
32.5°	1434.4	1195.1	574.5	245.5	198.6	190.1	200.5	213.7	240.1	265.7	275.4
35°	1443.8	1166.8	439.5	204.8	175.3	168.7	179.6	192.4	207.9	218.8	226.1
37.5°	1478.7	1155.6	331.7	183.5	159.4	153.2	161.8	169.1	175.3	178.4	181.9
40°	1553.9	1167.6	265.7	172.6	150.5	142.7	146.2	149.0	152.8	155.9	157.5
42.5°	1664.9	1203.6	238.2	168.3	145.8	134.6	133.8	135.0	140.0	145.8	147.0
45°	1820.0	1267.3	236.2	171.1	143.5	128.0	124.5	126.1	133.8	142.7	144.3
47.5°	2018.2	1364.2	251.7	179.2	145.5	124.5	118.7	120.6	130.3	142.4	144.3
50°	2258.3	1499.6	277.7	191.2	154.0	125.3	116.8	117.9	128.0	141.2	143.1
52.5°	2541.9	1691.6	306.1	202.9	162.9	130.3	118.3	115.6	124.9	136.5	138.9
55°	2857.3	1937.9	335.1	213.3	167.6	136.5	121.4	112.5	119.1	128.8	130.7
57.5°	3244.4	2282.4	385.6	223.4	170.7	140.8	124.5	109.4	111.7	118.7	120.2
60°	3768.4	2769.6	474.4	240.1	177.7	142.4	124.1	106.7	104.3	108.2	109.0
62.5°	4396.4	3298.7	548.5	261.1	189.3	143.5	121.8	104.7	98.1	98.1	98.9
65°	4769.2	3440.3	507.4	278.5	199.0	142.4	119.1	102.8	93.5	89.2	89.6
67.5°	4453.1	3025.6	434.8	282.0	198.6	136.9	114.8	99.3	88.8	82.2	81.8
69°	4057.0	2610.6	402.3	272.7	189.3	129.9	109.4	95.4	85.3	78.4	78.0
70°	3737.8	2357.3	380.9	262.6	179.2	124.9	105.1	91.9	82.6	76.0	75.3
72.5°	2717.6	1544.6	325.4	225.8	147.8	104.7	90.8	80.7	73.7	69.8	69.0
75°	1358.0	736.6	264.2	183.1	113.3	83.8	74.5	67.5	64.0	63.2	62.8
77.5°	446.1	337.5	188.9	136.5	84.2	65.6	60.1	55.1	54.3	56.6	55.9
80°	245.2	196.3	119.9	90.4	57.4	48.1	47.3	44.6	45.8	49.7	48.9
82.5°	124.9	102.0	74.1	54.3	38.8	34.5	37.6	36.1	37.6	41.1	40.7
85°	61.7	55.9	46.9	33.0	25.6	22.1	26.8	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)