

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: P192060

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192060
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 12695 lumens
Efficiency: N/A
Efficacy: 98.4 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

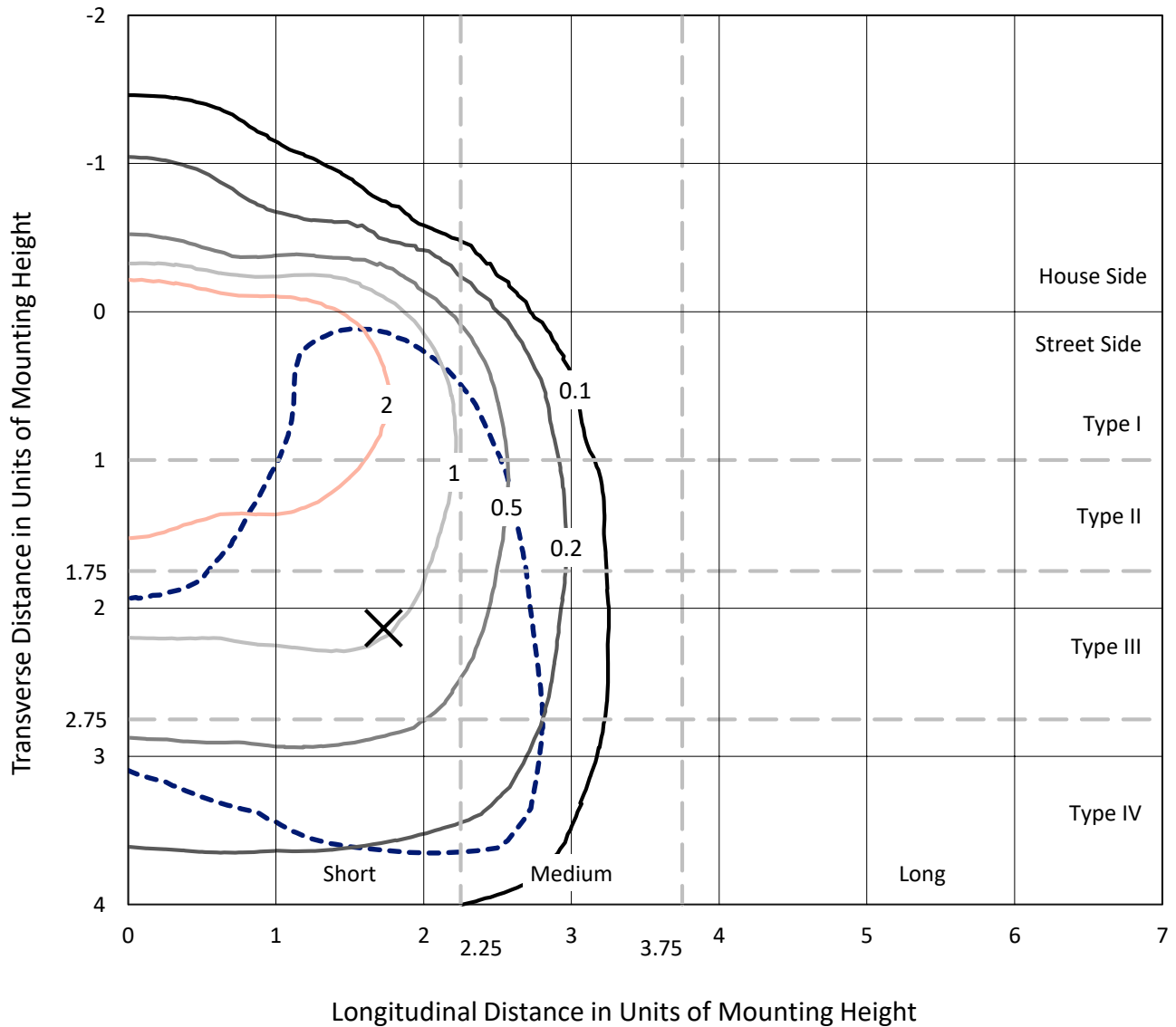


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

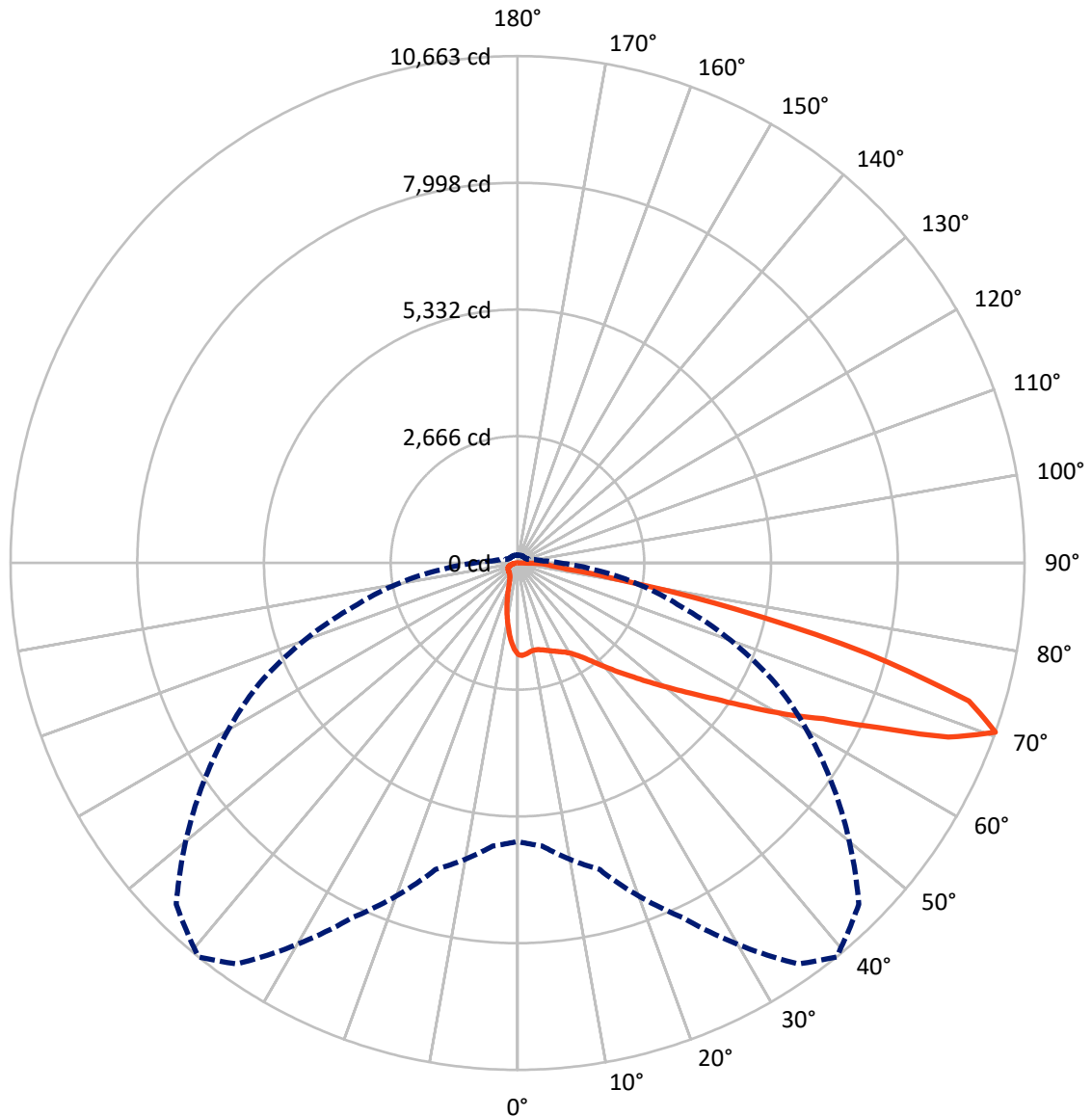


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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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	1443.9	0.0	1443.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11251.2	0.0	11251.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	12695.0	0.0	12695.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.3
10°-20°	413.4	3.3
20°-30°	643.7	5.1
30°-40°	1002.8	7.9
40°-50°	1683.6	13.3
50°-60°	2674.5	21.1
60°-70°	3567.4	28.1
70°-80°	2154.3	17.0
80°-90°	389.9	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°	12695.0	100.0
0°-180°	12695.0	100.0



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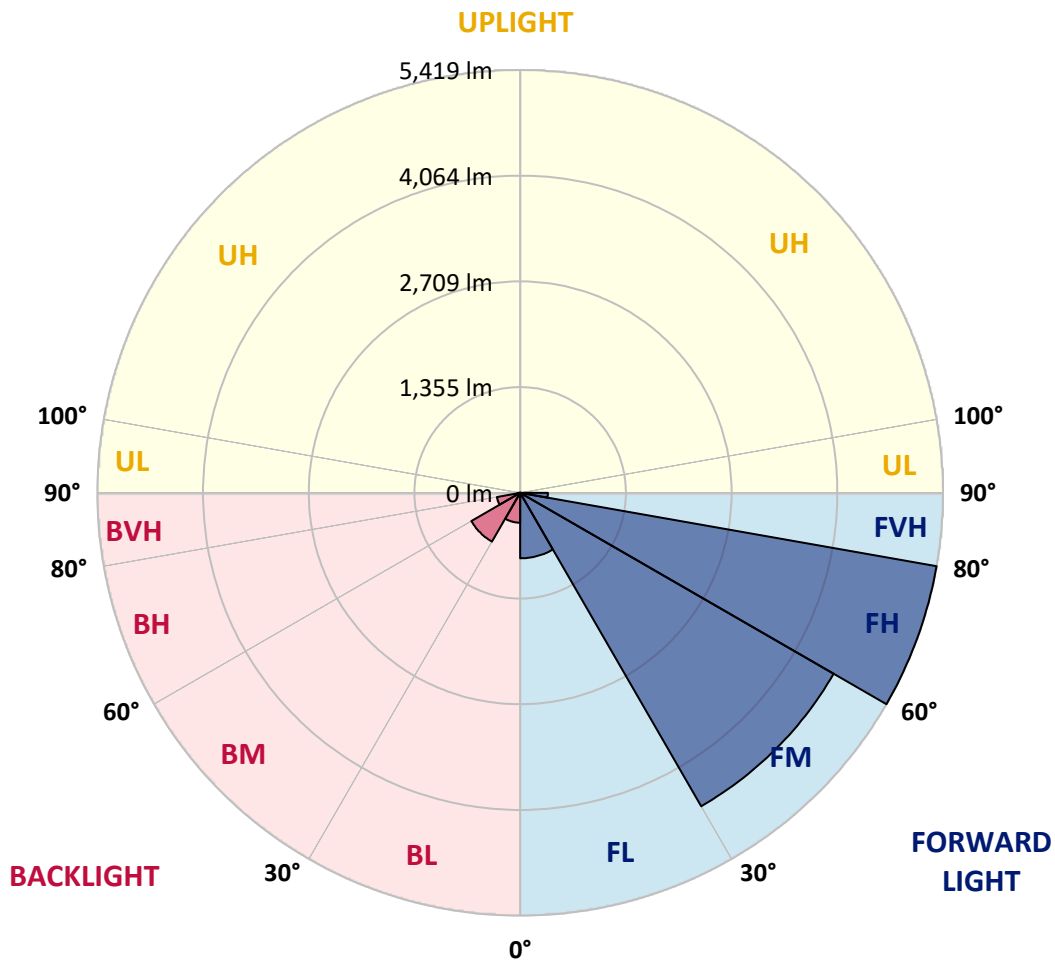
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.5	6.6			
FM	(30°-60°)	4638.3	36.5			
FH	(60°-80°)	5418.6	42.7			G3/7500
FVH	(80°-90°)	354.8	2.8			G3/500
BL	(0°-30°)	383.0	3.0	B1/500		
BM	(30°-60°)	722.6	5.7	B1/1000		
BH	(60°-80°)	303.1	2.4	B1/500		G1/500
BVH	(80°-90°)	35.1	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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1964.7	1964.1	1958.9	1955.1	1951.8	1950.5	1953.1	1943.4	1935.0	1924.7	1913.7
5°	1949.9	1949.2	1940.9	1933.1	1925.4	1922.8	1922.1	1904.7	1894.4	1878.9	1858.2
7.5°	1933.8	1930.5	1919.6	1906.6	1893.1	1886.6	1880.2	1857.6	1846.0	1830.5	1806.6
10°	1917.0	1913.1	1902.8	1889.9	1877.0	1867.3	1856.3	1834.4	1822.1	1810.5	1782.7
12.5°	1899.5	1896.3	1893.7	1887.9	1878.9	1870.5	1862.1	1843.4	1830.5	1816.9	1784.7
15°	1897.0	1895.7	1901.5	1905.4	1900.2	1895.0	1886.0	1869.9	1856.3	1842.7	1800.8
17.5°	1917.6	1917.0	1931.8	1942.1	1939.6	1930.5	1918.3	1900.2	1889.2	1877.6	1825.3
20°	1962.8	1966.0	1984.1	1997.7	1984.7	1971.8	1951.8	1926.7	1920.8	1915.7	1850.5
22.5°	2048.0	2051.2	2064.1	2069.3	2035.7	2017.0	1989.3	1957.0	1953.1	1957.0	1880.8
25°	2181.0	2177.7	2175.8	2156.4	2095.1	2066.1	2030.6	1997.0	1998.9	2016.4	1923.4
27.5°	2357.2	2339.7	2312.6	2254.5	2157.1	2124.8	2081.6	2050.6	2062.8	2096.4	1987.3
30°	2539.8	2520.5	2457.9	2363.0	2238.4	2202.9	2154.5	2119.6	2151.9	2204.8	2072.5
32.5°	2708.9	2706.3	2614.7	2492.7	2350.7	2319.7	2271.3	2231.9	2284.2	2364.9	2200.3
35°	2893.5	2899.3	2789.6	2643.1	2502.4	2470.1	2435.3	2405.6	2475.3	2586.3	2385.6
37.5°	3091.0	3102.7	2972.9	2807.7	2675.4	2661.8	2641.2	2628.3	2736.0	2889.7	2644.4
40°	3355.0	3343.4	3163.3	2993.6	2887.7	2887.1	2880.6	2896.1	3075.5	3286.0	2976.8
42.5°	3637.7	3603.5	3365.3	3193.0	3120.7	3142.7	3155.6	3218.8	3484.1	3767.5	3382.1
45°	3942.4	3865.6	3575.1	3404.1	3379.5	3426.0	3469.9	3607.4	3965.0	4315.4	3826.2
47.5°	4185.7	4111.5	3792.0	3625.5	3679.0	3749.4	3833.9	4051.5	4503.3	4881.5	4264.5
50°	4377.4	4329.0	4010.8	3883.6	4008.9	4117.3	4255.4	4554.3	5063.5	5432.7	4670.4
52.5°	4563.3	4527.1	4231.5	4148.3	4396.1	4545.9	4733.7	5093.8	5638.0	5974.9	5011.9
55°	4731.1	4705.3	4469.1	4478.1	4851.8	5046.7	5283.0	5708.3	6264.0	6458.3	5301.0
57.5°	4920.2	4887.3	4740.1	4891.8	5437.2	5690.2	5997.5	6398.9	6851.4	6888.2	5521.1
60°	5110.6	5082.2	5040.9	5369.5	6180.8	6446.7	6737.8	7068.3	7447.1	7221.9	5508.2
62.5°	5275.9	5279.1	5352.0	5871.0	6908.8	7216.7	7571.7	7898.3	7986.1	7280.0	5100.9
65°	5556.0	5607.0	5824.5	6581.0	7933.8	8345.6	8781.3	8729.0	8135.2	6737.2	4227.7
67.5°	5889.0	5978.8	6419.6	7527.2	9229.2	9775.9	9944.4	8916.8	7538.1	5476.6	3013.6
70°	5855.5	5978.8	6676.5	8232.6	10296.8	10663.4	10152.2	8070.0	5985.9	3577.7	1600.7
72.5°	5199.7	5375.9	6153.0	7909.3	9960.5	9928.2	8813.5	6016.2	3556.4	1436.8	625.4
75°	3963.0	4141.2	4809.9	6248.5	7872.5	7601.4	6253.7	3323.4	1349.6	570.6	394.4
77.5°	2279.7	2417.8	2934.2	3832.0	4994.5	4716.3	3480.9	1478.1	657.1	397.6	307.9
80°	1272.8	1349.6	1663.3	1944.1	2447.5	2243.6	1557.5	918.5	490.5	288.5	237.5
82.5°	1006.2	1074.7	1345.1	1226.3	1117.9	1031.4	894.6	817.8	391.8	182.0	142.0
85°	879.1	944.3	1138.6	965.6	763.6	700.3	726.8	804.9	304.6	109.7	121.3
87.5°	814.6	901.7	1014.6	744.2	594.5	526.7	670.6	882.3	98.1	68.4	49.1
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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1904.1	1893.7	1877.0	1862.1	1838.9	1826.6	1813.1	1803.4	1795.6	1789.2	1799.5
5°	1845.3	1826.0	1790.5	1752.4	1707.2	1671.7	1642.0	1614.3	1594.9	1582.0	1591.0
7.5°	1789.8	1758.2	1702.7	1633.6	1556.2	1490.3	1436.1	1388.4	1355.4	1334.1	1342.5
10°	1758.2	1718.8	1633.0	1524.5	1410.3	1307.7	1222.5	1148.9	1097.9	1068.9	1073.4
12.5°	1750.4	1699.5	1580.7	1431.6	1275.4	1132.8	1012.7	910.7	839.1	801.6	802.9
15°	1756.3	1691.1	1531.6	1342.5	1145.0	964.9	815.2	691.3	608.0	565.4	564.8
17.5°	1765.9	1684.6	1480.0	1246.4	1012.7	803.6	636.4	515.1	441.5	407.3	404.7
20°	1776.3	1674.3	1421.9	1142.4	875.2	653.8	498.3	403.4	356.9	338.2	336.9
22.5°	1791.1	1665.2	1361.9	1032.7	740.3	532.5	409.9	346.0	321.4	311.7	310.5
25°	1815.0	1660.7	1298.0	918.5	619.0	445.4	356.9	317.6	303.4	296.9	296.3
27.5°	1855.0	1667.2	1238.0	807.5	520.2	386.6	327.2	303.4	293.0	287.2	286.6
30°	1906.6	1687.2	1174.7	702.2	443.4	346.6	309.2	293.7	285.3	279.5	279.5
32.5°	1992.5	1720.8	1108.2	611.2	388.6	318.8	295.6	285.3	278.2	273.7	273.0
35°	2119.0	1784.0	1046.3	535.7	349.2	298.8	284.0	276.3	271.1	268.5	268.5
37.5°	2302.9	1884.1	991.4	481.5	325.3	285.3	273.0	267.2	264.0	264.0	264.0
40°	2550.2	2022.2	946.9	445.4	311.7	275.6	264.6	260.1	258.2	258.8	258.8
42.5°	2855.4	2201.6	917.2	420.2	305.3	269.8	258.8	255.0	253.0	252.4	253.0
45°	3203.3	2405.6	913.9	401.5	298.8	265.9	255.0	251.1	247.2	244.6	244.6
47.5°	3541.6	2612.8	940.4	395.0	291.7	261.4	251.7	247.9	242.0	236.2	236.2
50°	3840.4	2789.0	975.9	397.6	289.2	255.0	246.6	244.6	235.6	229.1	228.5
52.5°	4077.9	2924.5	1005.0	405.3	291.7	250.4	240.1	240.8	231.1	224.0	223.3
55°	4268.3	3013.6	997.2	413.1	297.5	247.9	234.3	235.6	227.8	220.7	220.7
57.5°	4351.6	2980.7	911.4	406.6	302.1	248.5	229.8	234.9	228.5	222.0	222.0
60°	4172.8	2688.3	750.7	378.2	296.3	246.6	227.8	237.5	236.9	230.4	229.8
62.5°	3631.9	2164.8	582.2	336.3	276.3	236.9	222.7	236.9	244.0	242.0	241.4
65°	2799.3	1542.0	444.7	291.1	249.1	220.7	209.1	222.0	231.7	234.3	233.7
67.5°	1816.9	944.9	342.7	248.5	218.8	202.0	191.7	197.5	199.4	199.4	198.2
70°	893.3	508.6	273.0	209.1	187.8	182.0	176.2	173.0	169.8	167.2	167.2
72.5°	440.8	332.4	224.6	176.9	162.0	159.4	158.1	154.3	151.7	148.5	147.2
75°	325.9	270.4	191.1	149.1	139.4	136.8	139.4	136.2	135.5	133.0	131.7
77.5°	267.9	230.4	164.6	127.8	119.4	114.9	118.8	119.4	120.1	116.2	114.9
80°	217.5	194.9	137.5	105.9	98.1	94.9	97.5	102.6	103.9	98.1	95.5
82.5°	156.8	159.4	111.0	82.6	76.2	73.6	78.7	85.2	86.5	78.1	76.2
85°	131.7	133.0	85.2	58.7	52.3	48.4	56.8	63.3	67.8	59.4	57.4
87.5°	54.9	78.1	49.1	32.9	29.0	25.2	30.3	33.6	40.7	37.4	36.8
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)