

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: P269358

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16910.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 162
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

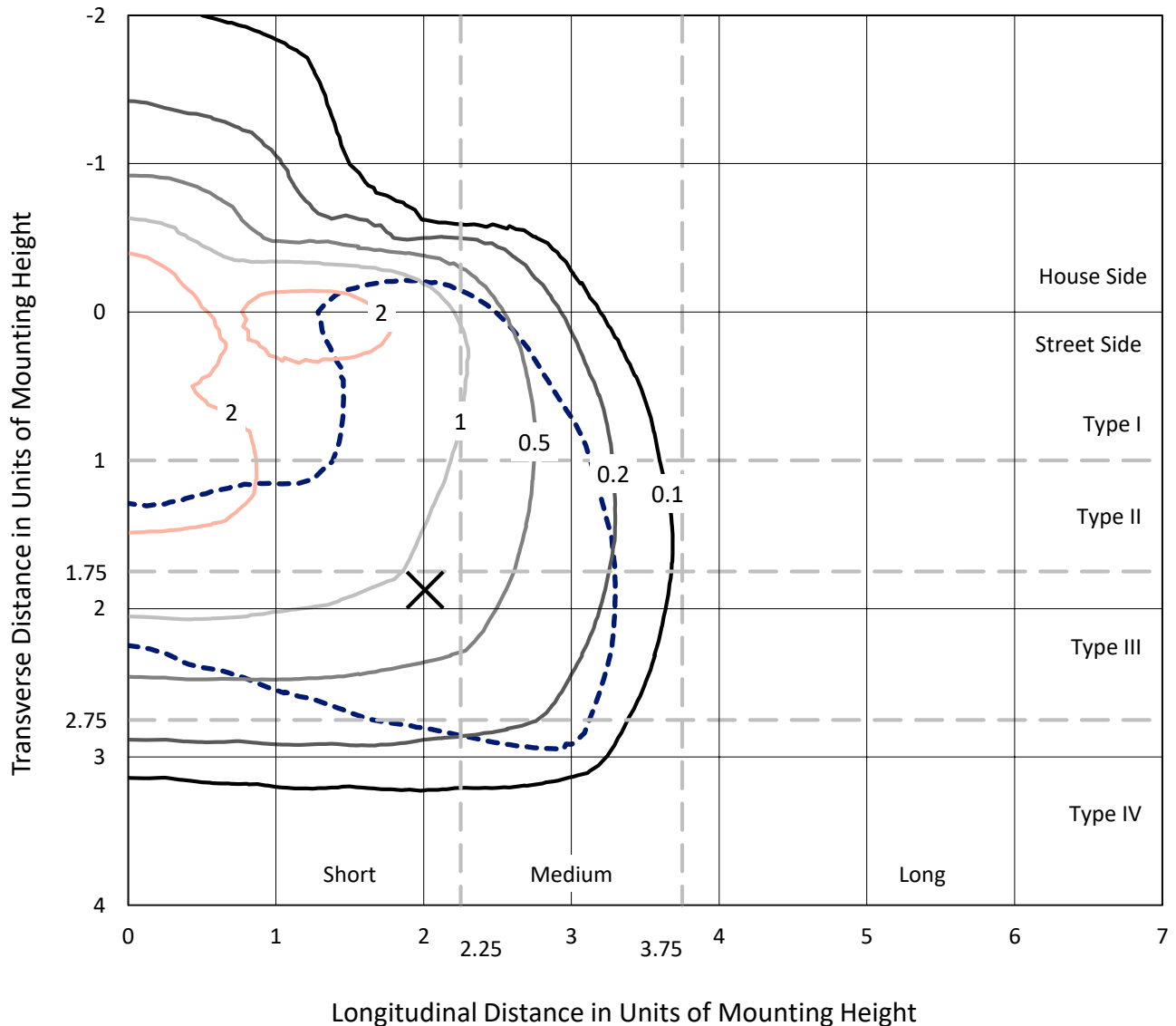


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

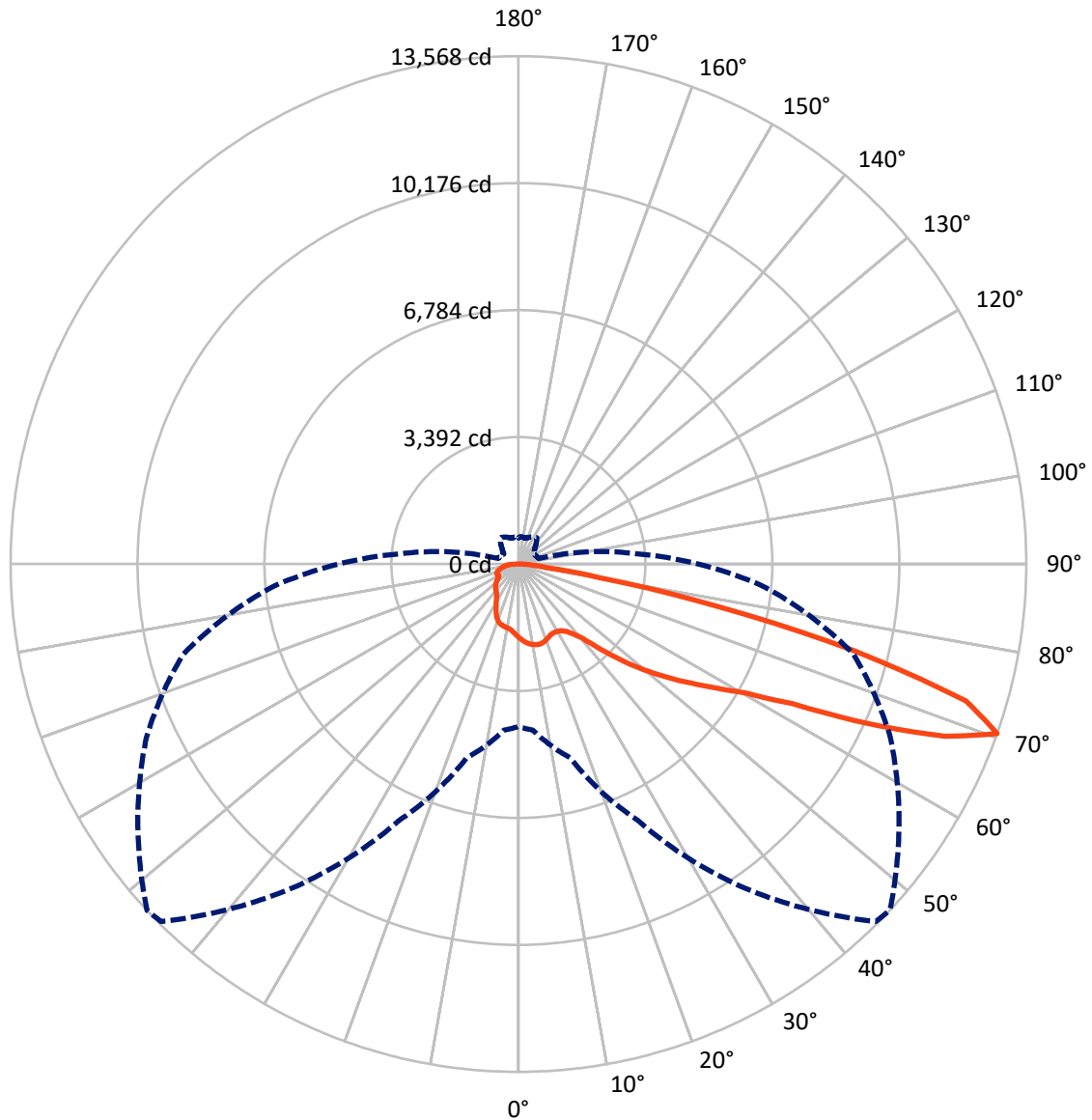


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3527.9	0.0	3527.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13383.0	0.0	13383.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	16910.9	0.0	16910.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	1.1
10°-20°	551.6	3.3
20°-30°	814.5	4.8
30°-40°	1183.9	7.0
40°-50°	2130.6	12.6
50°-60°	3691.0	21.8
60°-70°	5268.2	31.2
70°-80°	2704.4	16.0
80°-90°	378.6	2.2
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°	16910.9	100.0
0°-180°	16910.9	100.0



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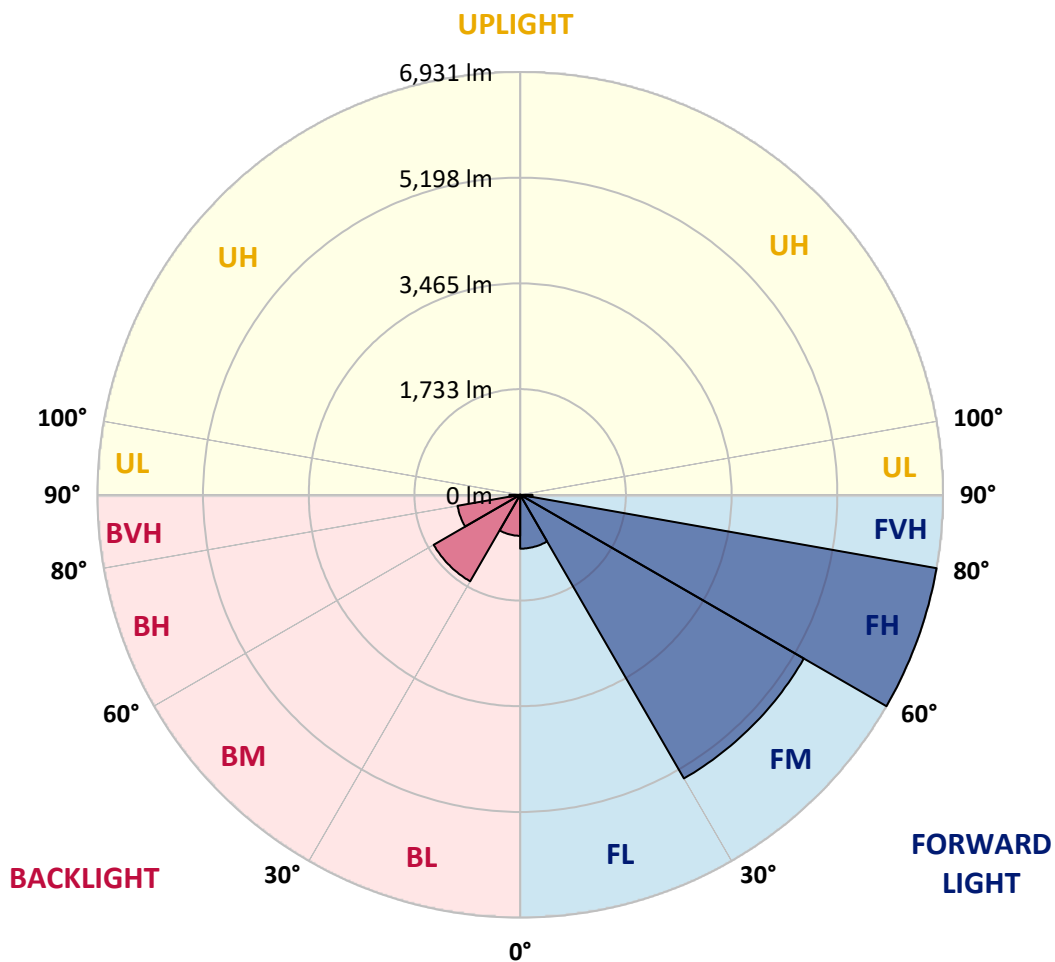
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.4	5.2			
FM	(30°-60°)	5368.0	31.7			
FH	(60°-80°)	6930.6	41.0			G3/7500
FVH	(80°-90°)	202.0	1.2			G2/225
BL	(0°-30°)	671.7	4.0	B2/1000		
BM	(30°-60°)	1637.6	9.7	B2/2500		
BH	(60°-80°)	1042.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	176.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2
2.5°	2077.4	2073.3	2071.6	2068.3	2064.2	2043.6	2039.5	2024.7	2004.2	1982.7	1960.6
5°	2214.0	2213.2	2204.1	2187.6	2161.3	2116.0	2105.4	2069.2	2020.6	1973.8	1926.9
7.5°	2334.1	2326.7	2309.5	2276.5	2230.4	2168.7	2153.9	2103.7	2037.0	1972.9	1909.5
10°	2422.1	2418.0	2380.1	2334.9	2274.8	2206.5	2189.3	2133.4	2060.2	1978.6	1899.6
12.5°	2472.2	2464.1	2420.5	2366.1	2294.6	2227.9	2210.6	2153.9	2071.6	1978.6	1885.7
15°	2469.0	2463.2	2419.7	2360.3	2288.1	2229.6	2214.0	2157.2	2069.2	1970.4	1867.5
17.5°	2403.1	2405.7	2368.7	2310.3	2251.0	2206.5	2192.6	2139.9	2052.6	1954.0	1846.1
20°	2288.1	2299.5	2274.8	2222.9	2190.1	2159.6	2150.6	2106.2	2027.1	1930.1	1823.2
22.5°	2172.8	2183.5	2173.5	2130.1	2125.1	2107.0	2102.0	2070.0	2004.9	1915.2	1809.1
25°	2088.1	2097.9	2096.4	2058.5	2073.3	2072.4	2068.3	2052.6	2000.0	1915.2	1811.6
27.5°	2065.1	2068.3	2065.1	2030.4	2051.0	2067.4	2064.2	2061.7	2014.9	1939.1	1843.0
30°	2144.1	2139.0	2113.6	2043.6	2062.6	2085.7	2082.4	2084.0	2059.3	2001.8	1912.9
32.5°	2459.1	2436.9	2356.3	2159.6	2109.5	2121.7	2123.5	2150.6	2154.8	2097.9	2021.5
35°	2930.5	2905.8	2801.4	2470.7	2255.0	2212.3	2212.3	2253.5	2278.1	2236.2	2190.1
37.5°	3429.9	3402.8	3346.8	2901.7	2561.2	2369.4	2365.3	2394.2	2429.5	2439.3	2450.8
40°	3997.5	3968.8	3984.4	3385.5	2988.1	2641.7	2583.3	2562.8	2658.3	2721.5	2813.8
42.5°	4618.7	4605.6	4611.4	3924.3	3474.4	3048.9	2965.9	2859.8	2974.9	3087.7	3281.0
45°	5193.8	5205.4	5199.6	4501.0	4015.8	3545.9	3457.8	3252.3	3365.0	3558.2	3873.4
47.5°	5697.4	5649.6	5723.7	5131.3	4622.0	4102.1	3993.4	3717.8	3832.2	4070.8	4604.0
50°	6308.6	6302.1	6193.5	5972.1	5355.1	4660.8	4518.4	4199.1	4376.9	4708.5	5524.5
52.5°	6951.2	6831.9	6732.3	6626.2	6132.5	5233.3	5059.0	4678.8	5016.9	5434.0	6646.7
55°	7082.9	7029.3	7152.8	7331.2	6882.1	5828.2	5624.9	5280.2	5737.7	6263.4	7940.8
57.5°	7364.1	7363.3	7618.4	7936.9	7653.7	6459.3	6254.3	6006.6	6548.0	7213.6	9314.9
60°	7554.2	7607.7	8081.6	8699.5	8411.5	7188.1	6999.8	6845.1	7469.4	8275.7	10595.0
62.5°	7653.7	7726.2	8372.8	9008.8	9482.7	8401.7	8213.3	7990.2	8688.8	9440.7	11343.6
65°	7240.0	7382.4	8327.6	9276.2	10420.6	10368.7	10284.1	9892.5	10213.3	10361.4	11073.0
67.5°	6094.7	6240.3	7341.2	9026.9	11090.4	12265.9	12284.1	11615.3	11151.2	10440.3	9309.9
70°	4342.3	4456.8	5367.5	7568.2	10580.1	13505.7	13567.6	12409.1	10964.4	9258.9	6504.4
72.5°	2061.7	2131.7	2994.0	4925.6	8395.9	12374.6	12493.8	11395.4	9323.1	6855.0	3548.5
75°	757.7	779.1	1011.9	2095.4	4869.7	9125.6	9266.3	8168.7	6180.2	3412.7	1351.7
77.5°	454.2	468.1	567.6	884.4	1915.2	5216.1	5424.2	4442.7	2701.1	1270.4	664.7
80°	317.6	327.4	407.2	550.4	905.0	1987.7	2172.8	1813.3	1076.1	803.9	483.7
82.5°	214.8	219.6	286.3	371.9	601.4	710.0	766.0	806.3	725.7	598.1	307.0
85°	140.7	145.6	194.2	245.1	382.6	367.0	375.1	474.8	529.8	406.5	170.3
87.5°	80.6	83.9	116.8	130.9	187.6	155.4	157.2	250.1	339.0	274.0	103.7
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°	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2	1962.2
2.5°	1954.8	1944.1	1920.2	1905.5	1891.4	1888.1	1882.4	1881.6	1880.7	1880.7	1878.3
5°	1911.1	1893.1	1856.1	1835.4	1818.2	1816.6	1815.7	1819.8	1821.6	1823.2	1820.7
7.5°	1883.1	1858.6	1812.5	1782.9	1762.2	1757.4	1765.6	1784.6	1796.8	1801.8	1799.2
10°	1865.9	1835.4	1782.0	1749.9	1732.7	1730.1	1740.8	1763.2	1788.5	1798.4	1797.7
12.5°	1846.1	1811.6	1754.8	1721.2	1711.4	1716.2	1730.1	1750.7	1777.0	1792.7	1793.6
15°	1826.4	1786.1	1727.7	1698.1	1693.9	1700.6	1713.7	1729.3	1749.9	1765.6	1767.2
17.5°	1802.5	1760.6	1702.2	1671.7	1668.5	1671.7	1672.6	1680.8	1693.9	1708.8	1712.9
20°	1777.0	1734.3	1673.5	1643.0	1628.2	1615.1	1600.2	1601.9	1606.0	1620.7	1624.0
22.5°	1759.1	1716.2	1651.3	1609.3	1569.8	1530.3	1500.7	1496.5	1498.2	1510.5	1514.6
25°	1760.6	1715.4	1645.4	1573.0	1486.7	1423.4	1383.7	1377.2	1376.5	1385.5	1391.2
27.5°	1792.7	1747.5	1666.8	1536.0	1396.1	1302.4	1260.4	1255.6	1249.0	1251.3	1257.9
30°	1864.3	1822.3	1718.6	1498.2	1298.3	1183.8	1140.3	1135.4	1126.4	1122.3	1127.2
32.5°	1981.1	1946.5	1794.4	1462.0	1200.3	1082.6	1038.4	1027.7	1021.8	1016.9	1021.1
35°	2175.2	2160.5	1895.6	1422.5	1114.0	1004.6	964.2	947.8	939.5	948.6	955.2
37.5°	2479.7	2487.9	2028.1	1360.8	1047.3	952.7	919.0	900.0	887.7	895.2	902.5
40°	2910.8	2916.5	2174.4	1273.5	989.8	922.3	886.1	868.8	851.6	838.4	837.5
42.5°	3476.8	3418.4	2318.4	1178.9	923.1	903.3	863.0	841.6	815.3	779.1	771.7
45°	4148.2	3943.3	2427.8	1070.4	848.2	880.2	837.5	807.9	766.8	727.3	723.1
47.5°	4921.5	4506.8	2481.3	957.7	778.3	846.7	806.3	759.3	707.5	687.8	685.3
50°	5866.0	5175.8	2506.8	848.2	717.4	802.1	761.0	705.9	662.3	658.2	655.8
52.5°	6941.4	5980.3	2515.1	758.6	667.3	744.5	724.0	670.6	636.0	639.2	639.2
55°	8066.8	6811.3	2403.1	693.5	621.2	685.3	699.3	656.5	627.7	640.9	645.8
57.5°	9100.1	7547.6	2051.0	643.4	577.5	640.1	690.3	669.6	650.0	703.5	706.7
60°	9893.3	7982.9	1531.9	598.1	545.5	624.4	714.2	719.9	724.8	852.3	869.6
62.5°	10059.4	7838.2	1053.2	562.8	530.7	637.5	757.7	758.6	752.8	841.6	852.3
65°	9296.7	6922.3	766.0	542.9	518.3	661.4	794.7	777.5	739.7	807.0	787.4
67.5°	7383.1	5215.2	637.5	528.3	500.3	659.9	834.3	794.7	732.2	790.7	758.6
70°	4792.4	3153.5	567.6	515.8	478.8	628.5	857.3	793.2	710.7	735.5	697.7
72.5°	2338.2	1410.2	520.7	497.8	456.6	584.9	856.4	778.3	688.6	686.9	666.5
75°	914.8	645.8	478.0	470.6	418.8	535.6	833.4	756.9	662.3	636.0	628.5
77.5°	535.6	460.7	423.7	430.3	373.5	486.3	799.8	719.9	626.1	594.9	586.7
80°	390.0	344.7	361.2	371.9	319.2	436.8	754.4	674.6	585.8	601.4	589.8
82.5°	250.1	222.2	292.8	303.5	265.8	386.7	705.1	626.8	529.0	480.5	468.9
85°	127.5	140.7	218.0	231.1	204.9	317.6	645.1	563.5	464.9	399.8	406.5
87.5°	71.5	96.3	139.1	155.4	144.7	244.3	523.3	464.9	379.3	308.5	271.5
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)