

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: P193221

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14518.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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



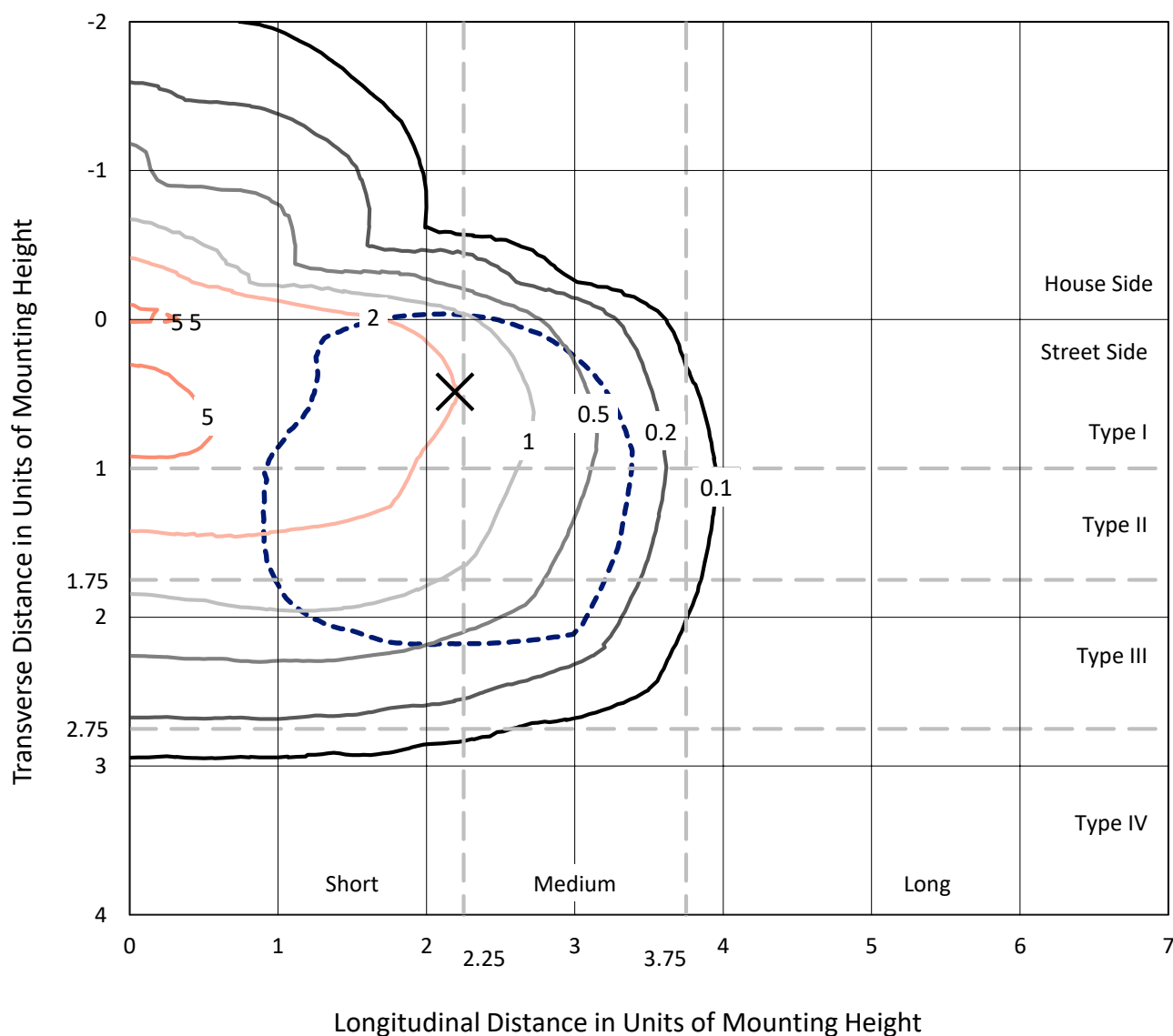
REPORT NUMBER: P193221

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

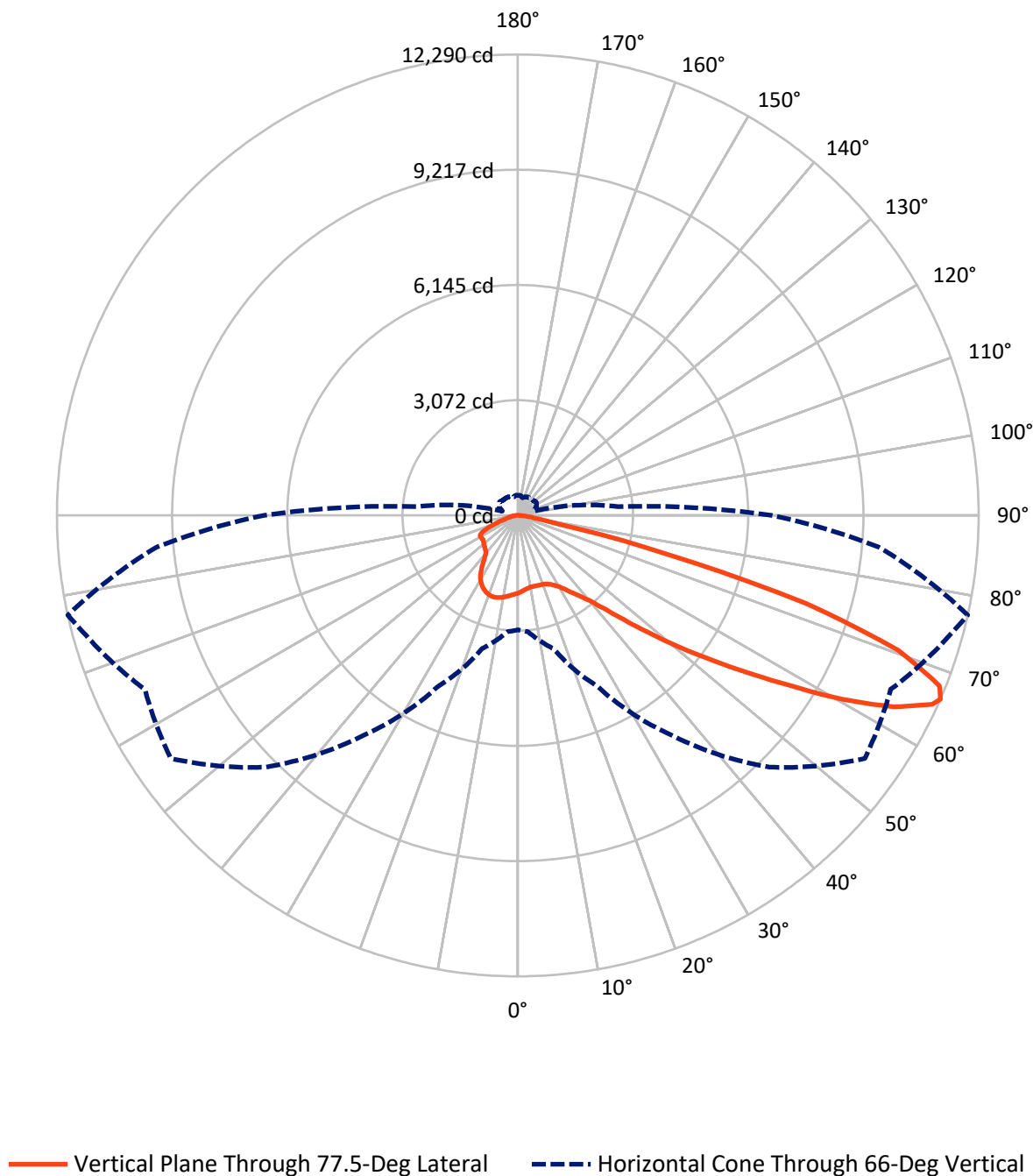


Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193221

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2480.4	0.0	2480.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12038.0	0.0	12038.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	14518.4	0.0	14518.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	1.3
10°-20°	521.5	3.6
20°-30°	890.0	6.1
30°-40°	1424.7	9.8
40°-50°	2201.0	15.2
50°-60°	3121.8	21.5
60°-70°	4176.1	28.8
70°-80°	1813.6	12.5
80°-90°	184.9	1.3
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°	14518.4	100.0
0°-180°	14518.4	100.0

Coefficient of Utilization



REPORT NUMBER: P193221

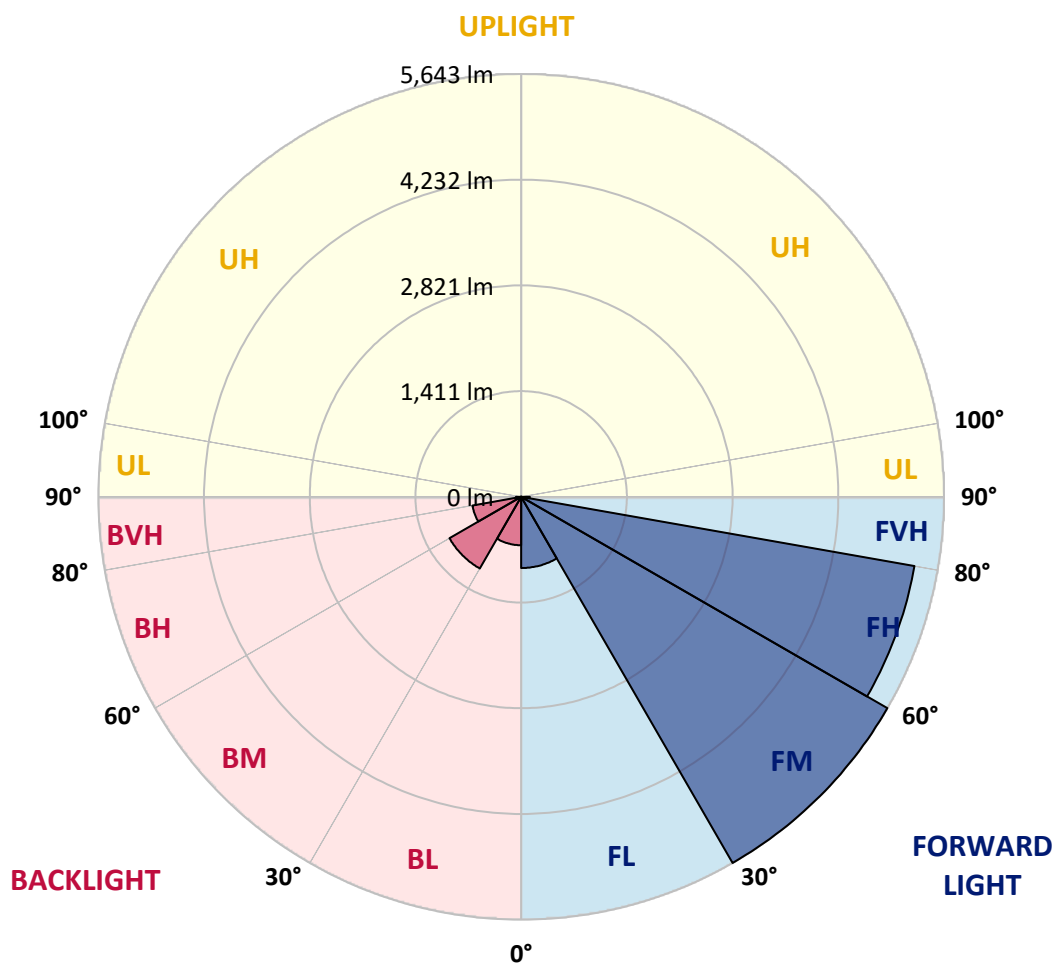
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.3	6.5			
FM	(30°-60°)	5642.6	38.9			
FH	(60°-80°)	5329.1	36.7			G3/7500
FVH	(80°-90°)	116.0	0.8			G2/225
BL	(0°-30°)	646.0	4.4	B2/1000		
BM	(30°-60°)	1104.9	7.6	B2/2500		
BH	(60°-80°)	660.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	69.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P193221

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0
2.5°	1830.2	1842.5	1852.8	1862.5	1881.7	1913.2	1949.6	1979.1	2021.7	2029.8	2052.4
5°	1662.2	1662.2	1670.3	1684.8	1710.9	1758.2	1807.5	1873.5	1966.0	1988.0	2048.4
7.5°	1580.6	1581.2	1586.0	1598.4	1621.0	1664.2	1718.4	1795.9	1921.5	1957.8	2060.7
10°	1610.7	1603.8	1593.5	1587.4	1590.9	1616.2	1667.7	1754.0	1894.0	1940.7	2088.2
12.5°	1779.4	1766.4	1730.7	1683.4	1638.2	1619.7	1649.9	1734.2	1882.3	1936.5	2124.5
15°	2055.1	2049.7	1983.2	1885.0	1775.4	1683.4	1662.8	1726.7	1883.7	1941.3	2167.7
17.5°	2401.0	2393.5	2305.6	2162.9	1983.8	1804.9	1708.9	1732.9	1888.5	1949.6	2209.5
20°	2750.2	2726.8	2632.2	2462.0	2232.1	1970.2	1785.0	1748.5	1894.7	1958.5	2253.5
22.5°	3010.7	2991.6	2906.6	2741.2	2476.4	2161.5	1887.1	1776.0	1914.5	1984.5	2307.7
25°	3239.9	3241.2	3156.9	2997.1	2723.4	2364.6	2018.9	1849.4	1965.3	2038.0	2381.8
27.5°	3523.3	3506.7	3427.9	3269.4	2967.6	2569.7	2178.0	1950.3	2040.9	2114.1	2479.2
30°	3862.1	3850.4	3759.2	3579.5	3238.6	2789.9	2359.8	2067.5	2138.2	2214.3	2606.7
32.5°	4260.7	4255.2	4160.5	3929.3	3551.4	3049.2	2573.2	2222.6	2283.6	2362.5	2789.9
35°	4728.5	4729.2	4617.4	4339.6	3893.7	3351.1	2815.3	2422.2	2460.6	2542.9	3008.0
37.5°	5016.6	5051.6	5009.7	4726.4	4281.3	3688.6	3129.5	2687.0	2662.3	2745.3	3241.9
40°	5078.4	5120.9	5253.3	5109.2	4714.7	4060.4	3408.1	2941.5	2910.6	3012.2	3543.2
42.5°	4991.9	5050.9	5330.8	5432.4	5175.1	4518.6	3782.5	3319.6	3280.4	3416.9	3917.7
45°	4940.4	4984.4	5308.2	5600.4	5574.3	5036.6	4259.3	3794.2	3779.9	3958.8	4349.8
47.5°	4851.3	4891.1	5202.5	5639.5	5809.0	5511.2	4832.1	4374.5	4402.7	4637.3	4837.6
50°	4899.3	4915.8	5084.5	5540.0	5876.8	5859.0	5472.1	5046.8	5142.9	5435.7	5389.8
52.5°	4892.4	4935.0	5070.8	5376.7	5885.8	6073.7	6102.5	5796.6	5999.0	6335.1	6002.3
55°	3955.4	4033.7	4909.6	5335.5	5917.4	6284.4	6663.7	6586.8	6964.1	7355.9	6693.9
57.5°	3777.1	3826.5	4312.1	5422.0	6084.7	6686.3	7287.9	7456.7	8087.8	8542.6	7536.2
60°	3742.0	3803.1	4305.9	5527.7	6424.2	7341.4	8213.3	8509.6	9455.0	9953.0	8513.1
62.5°	3633.0	3698.9	4265.5	5514.0	6906.5	8247.7	9398.1	9629.2	10751.4	11235.7	9330.0
65°	3287.3	3349.1	3935.5	5292.4	7231.7	9214.8	10800.2	10655.4	11775.0	12139.2	9737.6
66°	3050.6	3110.9	3675.5	5031.7	7156.3	9489.2	11296.9	10973.0	12004.1	12289.5	9658.0
67.5°	2617.8	2665.1	3170.6	4448.0	6755.0	9566.0	11714.6	11211.7	12028.2	12129.0	9203.2
70°	1653.9	1667.7	2060.7	3070.5	5113.4	8296.3	11078.7	10619.1	11036.2	10763.1	7715.4
72.5°	717.5	712.7	989.3	1562.0	2894.9	5566.8	8961.8	8762.1	8657.1	8034.3	5400.8
75°	399.3	404.7	513.8	725.1	1176.5	2734.3	5862.5	5610.0	4736.7	4041.8	2448.9
77.5°	320.3	327.9	426.0	514.5	528.2	953.5	2743.3	2232.1	1343.9	1078.4	680.4
80°	253.2	266.8	371.8	400.7	356.0	393.2	886.3	708.6	531.6	487.8	352.6
82.5°	200.3	209.9	319.0	303.2	249.0	264.9	424.6	413.6	345.7	314.8	203.8
85°	144.0	161.9	262.0	228.5	163.3	178.3	281.9	270.3	198.2	161.9	89.8
87.5°	59.0	76.8	185.2	151.7	91.2	83.0	140.6	132.4	94.0	68.7	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193221

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0
2.5°	2066.8	2083.3	2104.7	2117.7	2124.5	2129.4	2136.9	2136.1	2138.2	2138.9	2141.7
5°	2080.7	2108.0	2138.9	2147.2	2147.2	2139.7	2132.0	2119.7	2114.9	2113.5	2114.9
7.5°	2116.3	2146.5	2173.1	2163.6	2143.0	2112.8	2073.7	2039.5	2021.0	2014.7	2013.3
10°	2161.5	2197.9	2208.9	2172.5	2112.2	2039.5	1962.0	1905.7	1873.5	1864.5	1861.8
12.5°	2216.5	2250.7	2235.7	2158.9	2047.0	1929.6	1822.7	1732.9	1665.5	1644.4	1642.9
15°	2276.8	2303.5	2250.7	2116.3	1949.6	1776.7	1586.0	1431.0	1347.2	1320.5	1318.4
17.5°	2333.0	2346.8	2241.8	2042.2	1806.2	1526.4	1273.2	1153.8	1125.1	1131.9	1133.2
20°	2381.1	2381.1	2211.6	1935.8	1580.6	1196.4	1036.6	1034.4	1055.0	1075.6	1079.7
22.5°	2433.9	2402.3	2158.9	1785.7	1260.9	978.9	955.6	974.8	998.1	1020.7	1024.2
25°	2499.1	2419.4	2085.4	1557.9	991.2	889.1	898.0	913.7	925.4	939.8	941.9
27.5°	2571.8	2441.4	1988.6	1244.4	860.2	832.8	839.6	845.1	843.8	849.3	850.6
30°	2659.0	2466.8	1856.4	972.7	806.0	784.8	772.5	767.6	767.6	776.5	780.0
32.5°	2775.5	2504.5	1666.3	833.4	780.0	750.5	710.7	692.8	699.7	729.9	736.7
35°	2903.8	2544.9	1409.0	786.1	774.4	734.7	672.9	640.0	640.7	668.8	677.7
37.5°	3043.8	2596.4	1127.1	777.3	786.7	735.5	653.1	607.8	589.2	589.2	592.7
40°	3222.8	2649.3	912.4	783.4	812.9	743.6	642.8	582.4	530.2	531.6	534.4
42.5°	3456.0	2694.6	797.1	796.4	844.5	754.6	642.1	548.8	503.4	534.4	562.4
45°	3715.3	2717.2	746.4	808.1	869.8	761.4	631.1	543.3	507.0	598.8	652.4
47.5°	4013.7	2704.1	718.3	812.3	876.0	761.4	618.7	556.3	531.0	693.6	756.0
50°	4341.0	2666.5	690.7	803.9	874.0	760.1	630.4	569.4	539.8	709.9	753.3
52.5°	4725.8	2634.9	662.0	786.1	859.6	752.6	644.2	563.9	511.8	645.5	675.7
55°	5164.8	2643.7	629.8	760.8	836.9	738.1	639.3	541.9	482.3	568.7	587.2
57.5°	5725.9	2750.2	591.3	728.5	806.0	714.1	622.2	531.6	473.3	515.8	526.8
60°	6352.3	2935.4	543.3	696.3	767.6	675.7	609.1	536.5	477.5	511.8	517.3
62.5°	6811.9	3043.1	502.1	648.9	715.5	633.1	592.7	542.6	488.4	526.2	524.8
65°	6936.7	2866.1	450.7	579.6	644.8	588.6	572.1	549.5	493.2	537.8	531.6
66°	6761.7	2675.3	428.1	547.4	609.1	566.6	561.8	548.8	491.1	539.2	529.0
67.5°	6337.1	2284.3	389.0	500.1	552.2	533.7	545.3	542.6	485.6	537.8	523.5
70°	5168.2	1558.6	332.7	416.4	459.7	470.0	513.8	520.6	467.8	513.8	482.3
72.5°	3611.0	949.4	294.2	323.1	371.8	400.7	470.6	490.5	443.8	448.6	418.5
75°	1745.2	504.2	266.8	250.4	288.8	334.8	418.5	449.3	406.1	375.2	364.3
77.5°	544.0	308.0	226.3	201.7	226.3	270.3	349.8	393.8	361.5	314.2	310.1
80°	292.3	226.3	174.3	161.9	179.0	212.0	275.2	328.6	310.8	281.9	251.8
82.5°	192.8	146.9	128.9	125.5	136.5	161.9	204.5	272.4	272.4	241.5	175.6
85°	99.4	89.8	88.5	88.5	95.4	107.7	139.3	209.9	223.7	127.7	105.7
87.5°	49.3	51.5	48.0	50.0	53.5	52.8	66.5	105.7	126.2	77.5	64.5
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)