

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: P192972

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192972
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-04-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 14539.1 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' 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

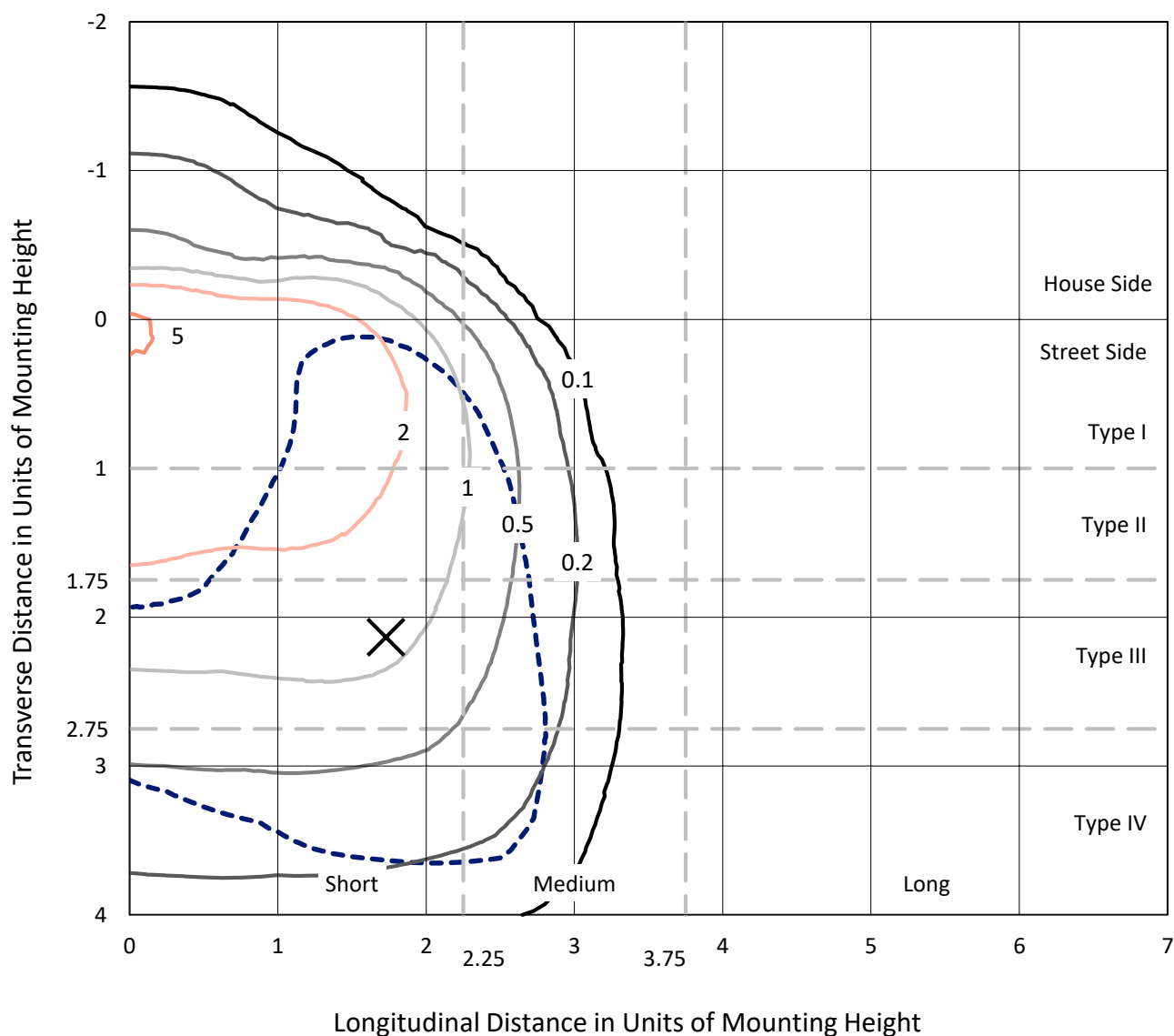


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

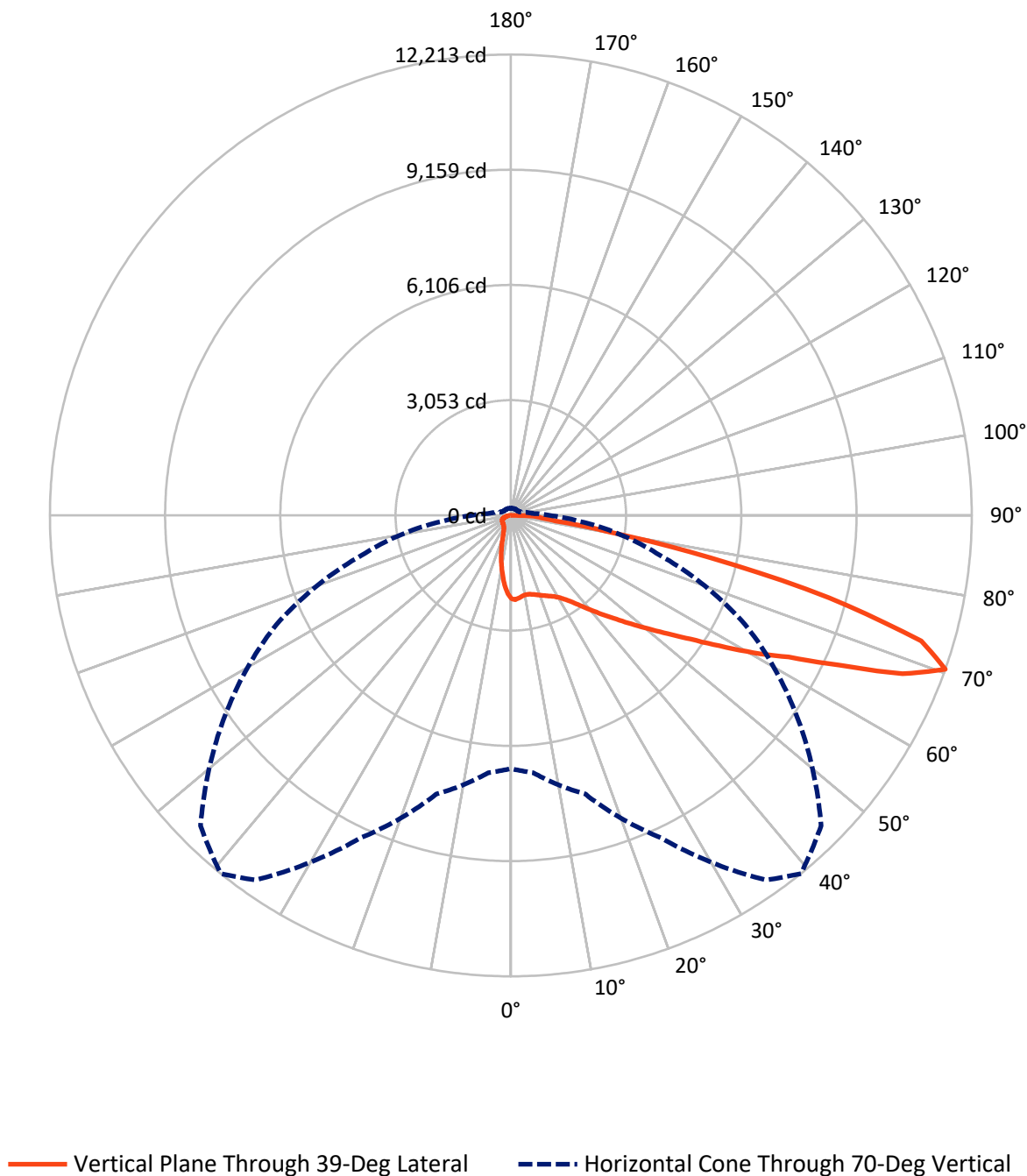


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.6	0.0	1653.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	12885.5	0.0	12885.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	14539.1	0.0	14539.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	1.3
10°-20°	473.5	3.3
20°-30°	737.2	5.1
30°-40°	1148.5	7.9
40°-50°	1928.1	13.3
50°-60°	3063.0	21.1
60°-70°	4085.7	28.1
70°-80°	2467.2	17.0
80°-90°	446.5	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°	14539.1	100.0
0°-180°	14539.1	100.0

Coefficient of Utilization



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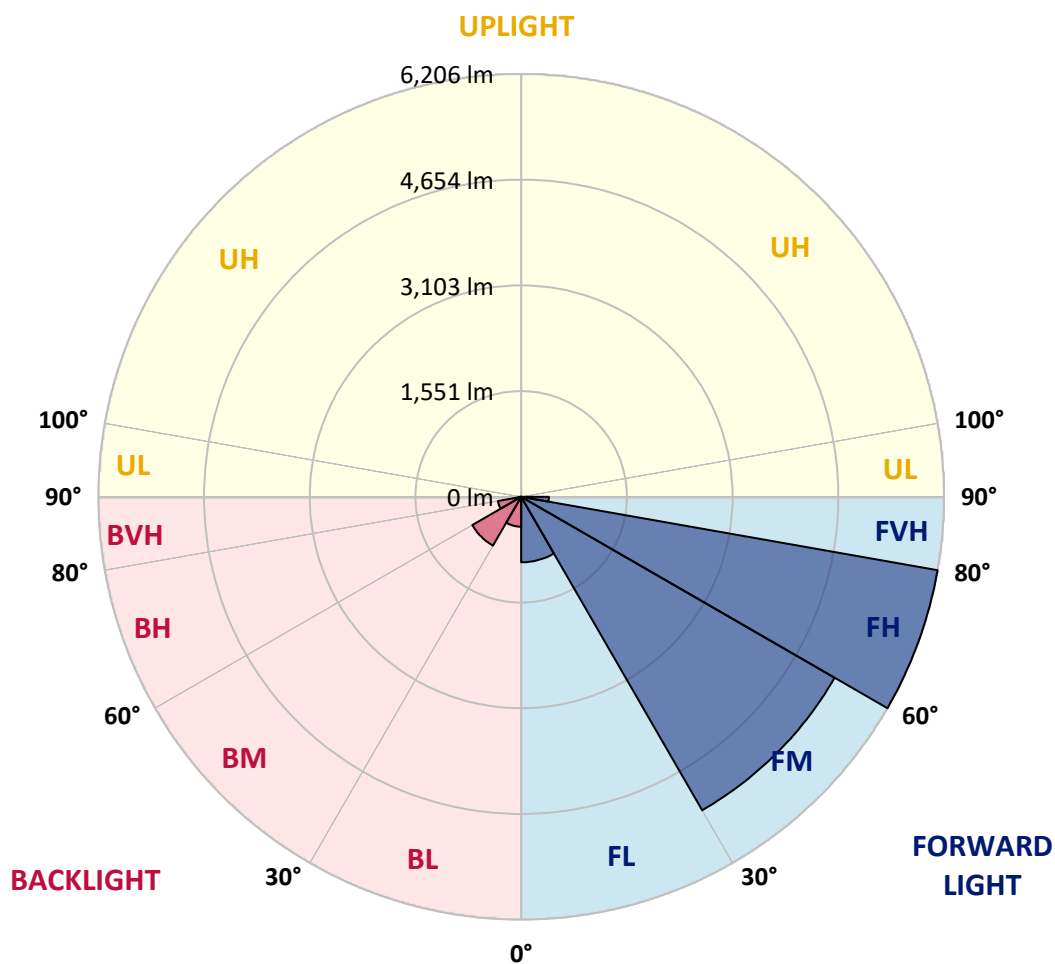
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	961.5	6.6			
FM	(30°-60°)	5312.0	36.5			
FH	(60°-80°)	6205.7	42.7			G3/7500
FVH	(80°-90°)	406.3	2.8			G3/500
BL	(0°-30°)	438.7	3.0	B1/500		
BM	(30°-60°)	827.5	5.7	B1/1000		
BH	(60°-80°)	347.1	2.4	B1/500		G1/500
BVH	(80°-90°)	40.3	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°	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2
2.5°	2250.0	2249.4	2243.5	2239.0	2235.3	2234.0	2236.9	2225.7	2216.1	2204.3	2191.7
5°	2233.2	2232.3	2222.8	2213.9	2205.1	2202.1	2201.3	2181.4	2169.6	2151.9	2128.2
7.5°	2214.6	2211.0	2198.4	2183.6	2168.1	2160.7	2153.3	2127.4	2114.1	2096.3	2069.1
10°	2195.4	2190.9	2179.1	2164.4	2149.5	2138.5	2125.9	2100.8	2086.8	2073.5	2041.7
12.5°	2175.5	2171.7	2168.8	2162.1	2151.9	2142.2	2132.6	2111.2	2096.3	2080.9	2043.9
15°	2172.5	2171.1	2177.6	2182.1	2176.2	2170.3	2159.9	2141.5	2125.9	2110.5	2062.4
17.5°	2196.2	2195.4	2212.4	2224.3	2221.3	2211.0	2196.8	2176.2	2163.7	2150.3	2090.4
20°	2247.9	2251.7	2272.3	2287.9	2273.0	2258.3	2235.3	2206.5	2199.8	2193.9	2119.3
22.5°	2345.5	2349.2	2364.0	2370.0	2331.5	2310.1	2278.3	2241.2	2236.9	2241.2	2154.0
25°	2497.7	2494.1	2491.8	2469.7	2399.5	2366.2	2325.6	2287.2	2289.3	2309.3	2202.7
27.5°	2699.6	2679.6	2648.6	2582.1	2470.5	2433.4	2383.9	2348.4	2362.5	2401.0	2276.0
30°	2908.8	2886.6	2814.8	2706.3	2563.5	2522.9	2467.5	2427.5	2464.6	2525.1	2373.5
32.5°	3102.4	3099.4	2994.5	2854.8	2692.1	2656.7	2601.3	2556.1	2616.0	2708.4	2519.9
35°	3313.9	3320.5	3194.8	3027.0	2865.9	2828.9	2789.1	2755.0	2834.8	2962.0	2732.1
37.5°	3540.0	3553.3	3404.7	3215.5	3063.9	3048.5	3024.9	3010.1	3133.4	3309.5	3028.5
40°	3842.4	3829.1	3622.8	3428.4	3307.2	3306.5	3299.1	3316.8	3522.3	3763.3	3409.2
42.5°	4166.2	4126.9	3854.2	3656.8	3574.1	3599.2	3614.0	3686.4	3990.2	4314.7	3873.5
45°	4515.0	4427.0	4094.5	3898.6	3870.5	3923.7	3974.0	4131.4	4541.0	4942.4	4382.0
47.5°	4793.8	4708.7	4342.8	4152.1	4213.5	4294.0	4390.9	4640.0	5157.5	5590.6	4883.9
50°	5013.3	4957.8	4593.4	4447.8	4591.2	4715.4	4873.6	5215.8	5799.1	6221.9	5348.9
52.5°	5226.2	5184.8	4846.2	4750.9	5034.7	5206.2	5421.3	5833.8	6457.0	6842.8	5739.9
55°	5418.3	5388.7	5118.2	5128.6	5556.6	5779.9	6050.3	6537.5	7174.0	7396.6	6071.1
57.5°	5634.9	5597.3	5428.8	5602.4	6227.0	6516.9	6868.7	7328.4	7846.7	7888.8	6323.2
60°	5853.0	5820.5	5773.2	6149.4	7078.6	7383.2	7716.6	8095.0	8529.0	8270.9	6308.4
62.5°	6042.2	6046.0	6129.5	6723.9	7912.4	8265.0	8671.6	9045.7	9146.2	8337.5	5842.0
65°	6363.0	6421.5	6670.6	7536.9	9086.3	9557.9	10056.9	9997.0	9317.0	7715.8	4841.9
67.5°	6744.5	6847.3	7352.2	8620.5	10569.8	11196.1	11388.9	10212.1	8633.1	6272.1	3451.4
70°	6706.2	6847.3	7646.3	9428.5	11792.6	12212.5	11627.0	9242.2	6855.4	4097.4	1833.3
72.5°	5955.0	6156.9	7046.7	9058.2	11407.4	11370.4	10093.8	6890.1	4072.9	1645.5	716.3
75°	4538.7	4742.7	5508.6	7156.3	9016.1	8705.6	7162.2	3806.1	1545.7	653.5	451.7
77.5°	2610.9	2769.0	3360.4	4388.6	5719.9	5401.3	3986.6	1692.8	752.5	455.4	352.6
80°	1457.7	1545.7	1904.9	2226.4	2803.0	2569.4	1783.6	1051.8	561.8	330.4	272.0
82.5°	1152.4	1230.8	1540.5	1404.5	1280.3	1181.2	1024.6	936.6	448.7	208.4	162.6
85°	1006.9	1081.4	1304.0	1105.8	874.5	802.1	832.3	921.8	348.9	125.6	139.0
87.5°	932.8	1032.7	1162.1	852.3	680.8	603.2	768.0	1010.5	112.3	78.3	56.2
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°	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2	2207.2
2.5°	2180.7	2168.8	2149.5	2132.6	2106.0	2092.0	2076.5	2065.3	2056.5	2049.0	2060.8
5°	2113.4	2091.2	2050.6	2007.0	1955.2	1914.5	1880.6	1848.7	1826.6	1811.7	1822.1
7.5°	2049.8	2013.6	1950.1	1870.9	1782.2	1706.8	1644.7	1590.0	1552.3	1527.9	1537.5
10°	2013.6	1968.6	1870.2	1746.0	1615.2	1497.6	1400.0	1315.8	1257.3	1224.1	1229.2
12.5°	2004.7	1946.4	1810.3	1639.6	1460.7	1297.4	1159.8	1043.0	960.9	918.1	919.5
15°	2011.4	1936.7	1754.1	1537.5	1311.3	1105.1	933.6	791.7	696.3	647.6	646.9
17.5°	2022.5	1929.3	1695.0	1427.4	1159.8	920.3	728.9	589.9	505.7	466.4	463.5
20°	2034.3	1917.5	1628.5	1308.4	1002.4	748.9	570.7	462.0	408.7	387.4	385.9
22.5°	2051.4	1907.1	1559.6	1182.7	847.9	609.8	469.4	396.2	368.1	357.1	355.5
25°	2078.6	1901.9	1486.6	1051.8	708.9	510.0	408.7	363.8	347.5	340.1	339.2
27.5°	2124.4	1909.5	1417.7	924.8	595.8	442.8	374.8	347.5	335.7	329.0	328.3
30°	2183.6	1932.2	1345.3	804.2	507.8	396.9	354.1	336.3	326.6	320.1	320.1
32.5°	2281.9	1970.7	1269.3	700.1	445.0	365.2	338.6	326.6	318.6	313.5	312.7
35°	2426.7	2043.1	1198.2	613.5	399.9	342.2	325.3	316.5	310.6	307.4	307.4
37.5°	2637.5	2157.8	1135.4	551.4	372.6	326.6	312.7	306.0	302.3	302.3	302.3
40°	2920.6	2316.0	1084.4	510.0	357.1	315.6	303.0	297.9	295.6	296.4	296.4
42.5°	3270.2	2521.3	1050.4	481.2	349.6	308.9	296.4	291.9	289.7	289.0	289.7
45°	3668.7	2755.0	1046.7	459.8	342.2	304.5	291.9	287.6	283.1	280.1	280.1
47.5°	4056.0	2992.3	1077.0	452.5	334.2	299.4	288.3	283.8	277.2	270.5	270.5
50°	4398.2	3194.0	1117.7	455.4	331.2	291.9	282.3	280.1	269.8	262.4	261.6
52.5°	4670.3	3349.4	1150.9	464.3	334.2	286.8	275.0	275.8	264.6	256.5	255.7
55°	4888.4	3451.4	1142.1	473.1	340.8	283.8	268.3	269.8	260.9	252.8	252.8
57.5°	4983.8	3413.7	1043.8	465.7	346.0	284.6	263.2	269.1	261.6	254.2	254.2
60°	4779.0	3078.8	859.7	433.2	339.2	282.3	260.9	272.0	271.3	263.9	263.2
62.5°	4159.5	2479.3	666.8	385.1	316.5	271.3	255.0	271.3	279.3	277.2	276.4
65°	3205.8	1765.9	509.2	333.3	285.3	252.8	239.5	254.2	265.4	268.3	267.5
67.5°	2080.9	1082.2	392.6	284.6	250.6	231.4	219.5	226.1	228.5	228.5	226.9
70°	1023.1	582.5	312.7	239.5	215.1	208.4	201.8	198.1	194.4	191.4	191.4
72.5°	504.9	380.7	257.2	202.5	185.5	182.6	181.2	176.7	173.7	170.0	168.6
75°	373.3	309.8	218.8	170.8	159.6	156.7	159.6	156.0	155.2	152.3	150.8
77.5°	306.8	263.9	188.5	146.4	136.8	131.5	136.0	136.8	137.4	133.1	131.5
80°	249.1	223.2	157.5	121.3	112.3	108.7	111.7	117.6	119.0	112.3	109.4
82.5°	179.6	182.6	127.2	94.6	87.2	84.2	90.1	97.6	99.1	89.5	87.2
85°	150.8	152.3	97.6	67.3	59.9	55.4	65.0	72.4	77.6	68.0	65.8
87.5°	62.9	89.5	56.2	37.7	33.3	28.9	34.8	38.5	46.6	42.8	42.2
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)