

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: P192811

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11344.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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



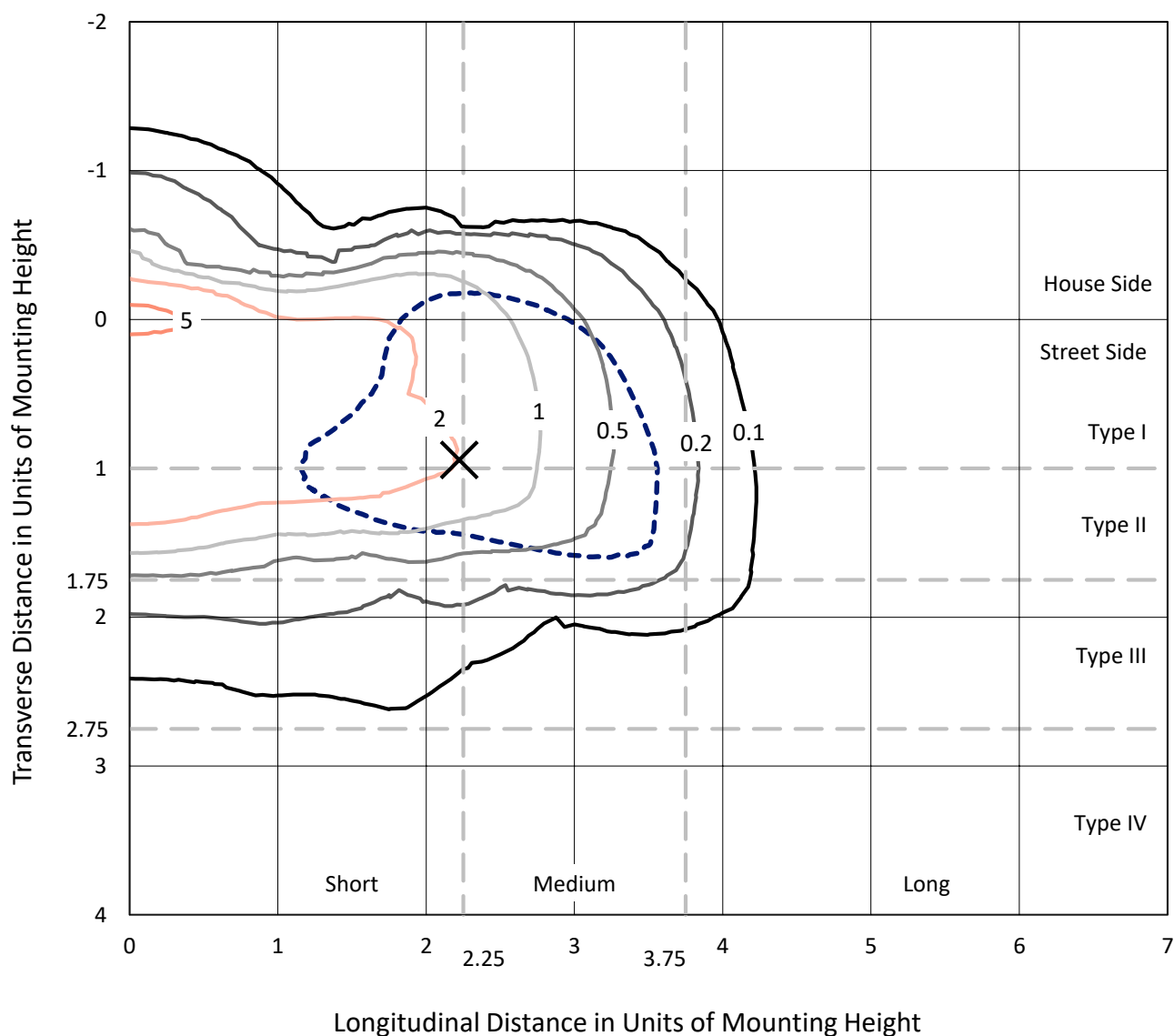
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

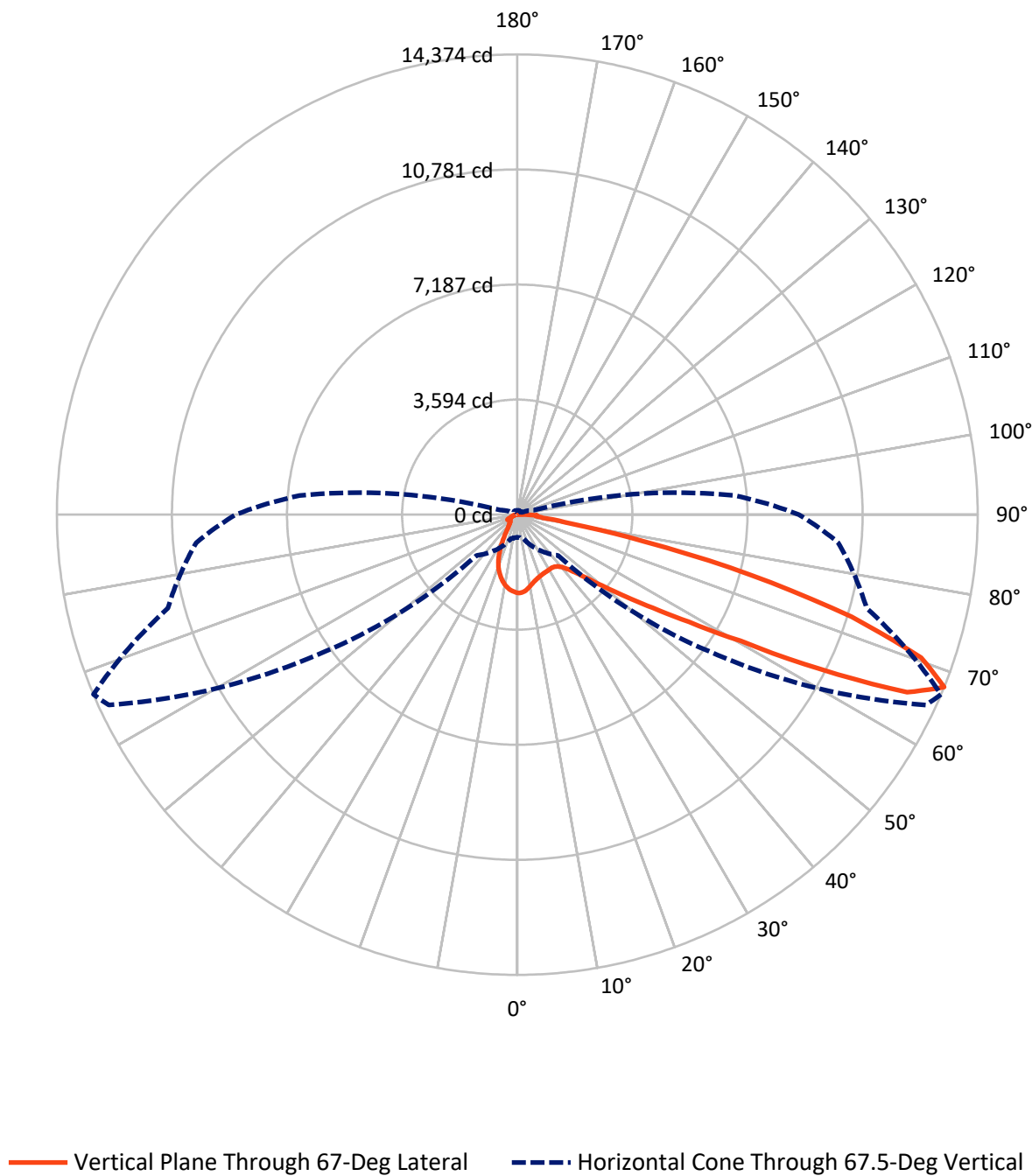


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.6	0.0	1879.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9464.7	0.0	9464.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	11344.4	0.0	11344.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.8
10°-20°	483.0	4.3
20°-30°	654.8	5.8
30°-40°	930.8	8.2
40°-50°	1557.3	13.7
50°-60°	2463.7	21.7
60°-70°	3138.5	27.7
70°-80°	1643.9	14.5
80°-90°	263.7	2.3
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°	11344.4	100.0
0°-180°	11344.4	100.0

Coefficient of Utilization



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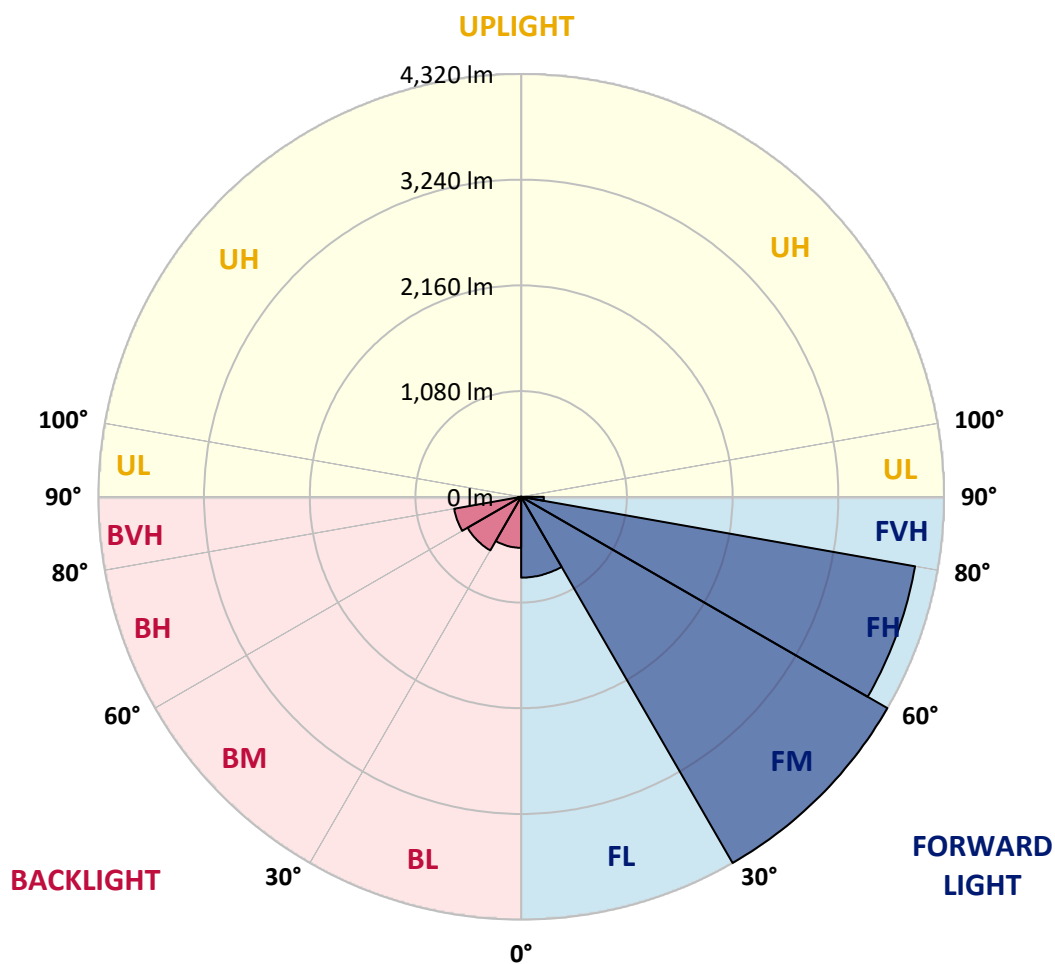
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.6	7.3			
FM	(30°-60°)	4320.2	38.1			
FH	(60°-80°)	4087.2	36.0			G2/5000
FVH	(80°-90°)	231.8	2.0			G3/500
BL	(0°-30°)	521.0	4.6	B2/1000		
BM	(30°-60°)	631.6	5.6	B1/1000		
BH	(60°-80°)	695.2	6.1	B2/1000		G2/1000
BVH	(80°-90°)	31.8	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0
2.5°	2346.3	2350.1	2362.5	2370.3	2405.6	2420.6	2431.3	2442.0	2443.6	2448.6	2443.6
5°	2100.1	2108.4	2131.4	2157.3	2225.4	2279.1	2335.6	2394.4	2405.1	2443.0	2453.6
7.5°	1909.3	1907.1	1926.1	1957.0	2026.9	2101.3	2200.3	2317.2	2340.2	2425.7	2467.1
10°	1770.0	1768.4	1788.5	1820.4	1887.0	1957.5	2069.4	2229.3	2261.7	2398.2	2479.9
12.5°	1667.1	1667.7	1687.8	1723.0	1790.8	1861.8	1975.4	2144.3	2185.7	2366.4	2493.4
15°	1598.9	1603.4	1619.5	1657.0	1723.0	1794.1	1905.4	2080.6	2127.0	2341.2	2508.5
17.5°	1575.9	1583.1	1588.7	1616.2	1672.6	1743.8	1852.8	2033.6	2082.8	2323.8	2521.9
20°	1597.2	1605.6	1594.9	1604.5	1640.3	1703.0	1811.4	1996.6	2047.0	2304.3	2523.6
22.5°	1688.4	1696.2	1664.9	1637.5	1635.2	1673.3	1777.3	1967.5	2019.5	2289.7	2524.1
25°	1848.8	1853.9	1801.3	1737.5	1675.5	1662.6	1753.3	1947.4	2002.7	2276.9	2513.5
27.5°	2045.9	2049.8	1989.4	1895.3	1770.6	1687.8	1744.9	1935.6	1993.2	2265.7	2495.6
30°	2285.2	2303.7	2222.7	2104.0	1922.2	1762.3	1761.7	1929.5	1982.6	2246.7	2460.4
32.5°	2530.3	2538.1	2482.2	2361.9	2126.4	1893.1	1808.7	1934.0	1979.8	2223.8	2415.6
35°	2778.7	2788.8	2752.5	2655.6	2405.6	2085.0	1900.3	1960.2	1997.2	2215.9	2384.2
37.5°	3100.3	3113.8	3063.4	2951.5	2745.1	2345.1	2053.1	2026.2	2050.4	2238.2	2374.8
40°	3609.0	3602.8	3455.7	3288.9	3116.6	2678.1	2271.3	2138.2	2152.2	2310.5	2403.9
42.5°	4200.8	4185.7	3932.2	3670.4	3525.0	3080.8	2560.0	2332.2	2329.5	2452.6	2506.3
45°	4672.9	4660.7	4432.4	4109.6	3993.2	3539.6	2933.1	2621.4	2600.8	2678.1	2695.3
47.5°	4928.5	4929.1	4797.7	4534.2	4531.4	4122.5	3412.5	3039.9	3004.2	3040.4	3022.0
50°	4839.1	4850.8	4836.8	4752.9	5022.5	4886.6	4038.6	3623.5	3551.3	3587.1	3516.1
52.5°	4406.1	4421.1	4504.0	4632.7	5229.0	5810.3	4958.3	4348.5	4264.5	4251.8	4172.8
55°	3638.6	3657.0	3825.9	4175.6	5057.3	6430.7	6409.3	5272.7	5138.9	5017.5	4984.0
57.5°	2507.9	2538.7	2810.5	3329.7	4501.7	6618.1	8137.5	6590.1	6318.3	5894.2	5901.9
60°	1413.7	1449.6	1770.0	2241.7	3380.7	6414.5	9452.1	8585.6	8011.7	6920.7	6978.9
62.5°	898.9	937.7	1181.0	1557.5	2028.5	5317.9	9990.8	11359.8	10630.9	8186.1	8243.3
65°	727.7	744.6	859.4	1285.6	1473.1	3203.9	9581.9	13645.1	13373.3	9792.3	9526.0
67.5°	710.5	716.0	775.4	1079.2	1412.6	1800.8	7643.0	14072.5	14374.0	11292.2	10060.3
70°	702.1	721.6	873.8	1029.9	1352.7	1518.8	4592.9	12901.2	13377.1	11684.3	9349.2
72.5°	340.7	339.6	439.7	931.4	1523.9	1575.4	2359.7	10438.4	10916.2	10123.0	7682.7
75°	274.7	251.2	240.1	341.2	1465.1	1626.9	1503.7	7182.6	7528.3	6787.0	4722.7
77.5°	260.7	232.7	213.2	213.7	619.3	1725.3	1273.9	3975.3	4076.0	3065.7	1293.9
80°	215.9	190.2	176.2	198.7	299.8	1643.0	1377.3	1799.2	1650.9	753.1	430.8
82.5°	149.9	136.5	132.5	166.7	240.1	1170.9	1601.6	966.7	810.6	377.1	265.7
85°	95.7	81.7	90.5	121.4	186.9	540.4	1649.9	753.6	599.2	239.4	149.9
87.5°	44.1	35.8	44.8	67.0	122.0	186.3	1569.7	846.4	617.1	126.4	94.5
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°	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0	2447.0
2.5°	2448.1	2437.5	2429.1	2413.4	2396.0	2379.2	2364.2	2345.1	2339.6	2334.6	2342.3
5°	2455.9	2445.3	2414.5	2366.4	2313.2	2263.5	2213.7	2171.2	2144.9	2130.3	2138.8
7.5°	2467.6	2452.6	2388.7	2300.4	2204.8	2117.5	2027.5	1955.2	1902.1	1876.8	1884.1
10°	2478.3	2449.1	2345.1	2212.6	2072.6	1942.9	1800.8	1683.3	1596.1	1550.2	1561.5
12.5°	2482.8	2436.4	2284.2	2102.9	1911.1	1720.9	1511.6	1335.9	1210.6	1164.7	1155.2
15°	2487.3	2421.7	2217.0	1978.1	1715.8	1446.7	1153.6	943.2	839.1	816.1	811.1
17.5°	2488.4	2396.6	2140.9	1842.7	1487.0	1120.6	788.9	655.1	655.7	692.6	697.1
20°	2476.6	2359.1	2048.6	1674.4	1212.9	774.8	541.5	518.6	603.1	695.3	706.6
22.5°	2449.7	2309.3	1944.0	1478.1	898.9	510.2	419.0	444.1	553.3	666.3	679.1
25°	2415.6	2248.9	1820.4	1250.4	595.3	364.7	351.4	382.1	455.9	531.4	538.7
27.5°	2369.2	2177.3	1681.6	989.7	386.6	300.5	309.3	330.1	360.2	393.9	397.1
30°	2309.3	2091.8	1533.5	721.6	292.0	270.2	283.1	294.2	307.1	326.1	327.8
32.5°	2240.6	2009.5	1381.2	498.4	259.1	254.6	264.6	270.2	280.2	292.0	293.2
35°	2182.9	1931.1	1223.4	352.5	245.1	242.8	249.5	251.8	261.2	274.1	275.3
37.5°	2149.9	1867.4	1060.7	284.2	235.6	232.1	236.1	236.1	249.5	268.6	271.3
40°	2152.2	1832.2	897.9	256.8	227.7	223.2	223.8	223.8	241.1	261.7	263.6
42.5°	2213.1	1841.1	753.6	246.2	221.6	216.6	213.7	215.3	229.9	243.3	244.5
45°	2356.2	1904.3	618.2	239.4	215.3	213.7	207.6	206.9	212.6	218.7	218.7
47.5°	2591.3	2029.1	526.4	234.9	210.4	209.8	202.5	195.2	194.7	196.8	196.8
50°	2973.4	2243.8	464.9	229.9	206.9	202.5	194.2	182.9	178.9	180.8	180.8
52.5°	3546.2	2627.1	441.4	223.2	199.7	192.4	182.9	171.7	168.4	169.0	169.0
55°	4297.6	3215.6	438.0	215.3	191.9	180.2	172.3	163.9	159.9	161.1	161.1
57.5°	5215.6	4029.6	497.9	203.1	181.3	167.8	163.4	157.8	154.9	156.7	156.1
60°	6331.7	5094.8	738.5	190.2	170.7	156.7	156.7	152.2	149.9	151.7	151.0
62.5°	7617.2	6318.3	1038.3	180.8	159.4	147.7	149.9	147.7	145.5	146.5	146.0
65°	8757.3	7115.4	972.3	173.4	148.3	139.3	143.2	142.1	140.4	141.5	141.0
67.5°	8790.4	6820.1	546.0	165.6	137.6	130.9	136.5	135.9	134.8	135.9	135.4
70°	7845.0	5758.8	307.7	151.0	126.4	120.8	128.7	128.2	127.0	129.3	128.7
72.5°	6285.2	4178.9	224.8	133.2	115.3	110.3	119.2	118.5	118.5	122.0	120.3
75°	3616.7	2150.4	179.6	114.1	103.5	99.5	107.4	107.9	109.0	113.5	110.3
77.5°	1031.1	670.2	146.5	96.8	88.9	87.3	95.0	96.2	96.8	101.8	97.4
80°	383.2	308.7	120.8	81.1	72.7	73.3	80.6	82.3	82.8	87.9	82.3
82.5°	244.5	203.7	97.9	62.6	57.1	56.5	65.4	67.7	67.7	68.3	64.9
85°	142.7	122.0	73.9	45.4	40.3	38.6	48.6	52.6	51.0	49.8	47.5
87.5°	95.7	83.9	45.4	25.1	21.9	20.6	28.5	31.3	30.1	28.5	26.9
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)