

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: P192907

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41585.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

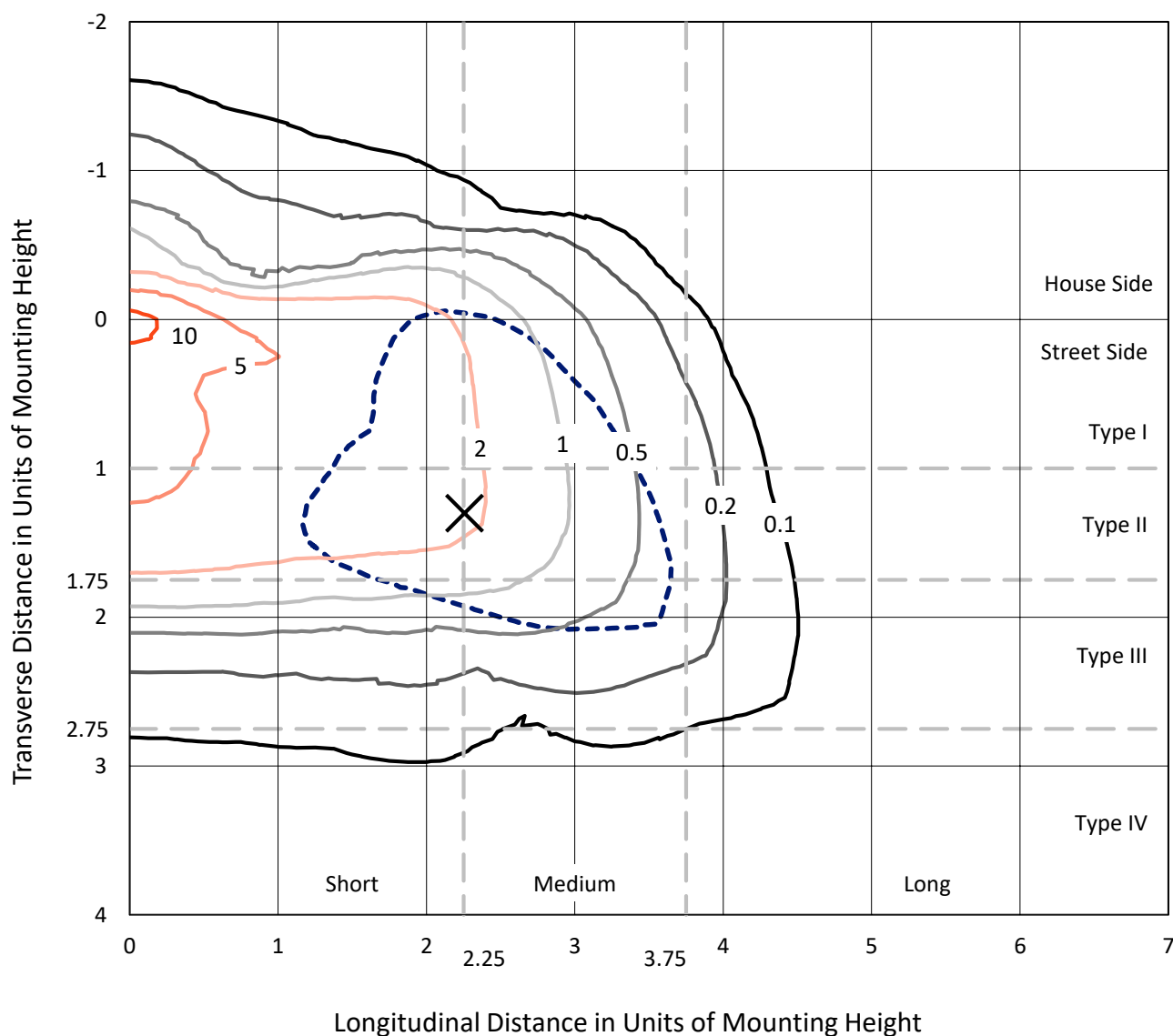


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

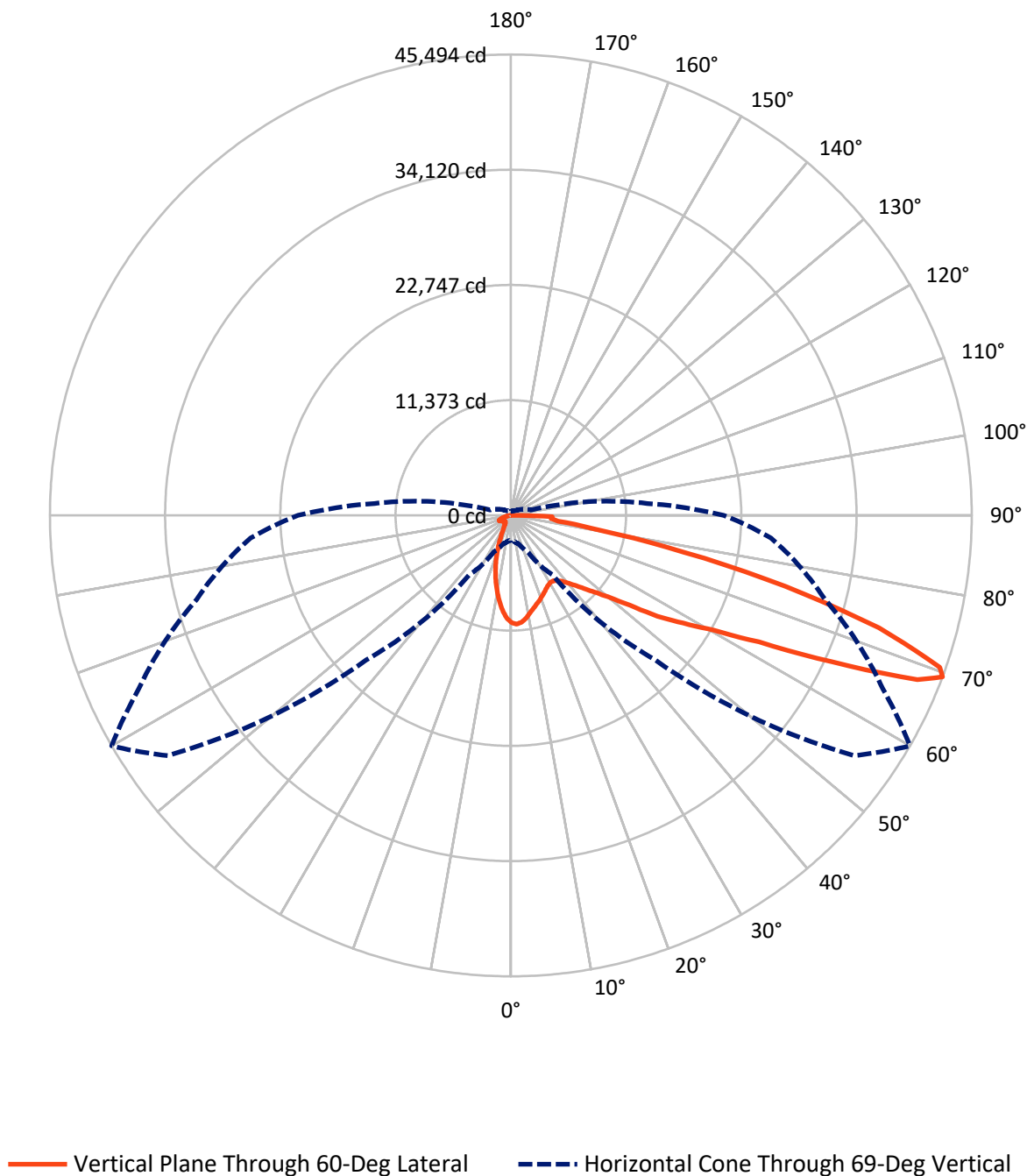


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5916.3	0.0	5916.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	35668.9	0.0	35668.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	41585.2	0.0	41585.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	896.0	2.2
10°-20°	1908.9	4.6
20°-30°	2432.3	5.8
30°-40°	3343.8	8.0
40°-50°	5425.7	13.0
50°-60°	8701.4	20.9
60°-70°	11580.9	27.8
70°-80°	6252.8	15.0
80°-90°	1043.3	2.5
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°	41585.2	100.0
0°-180°	41585.2	100.0

Coefficient of Utilization



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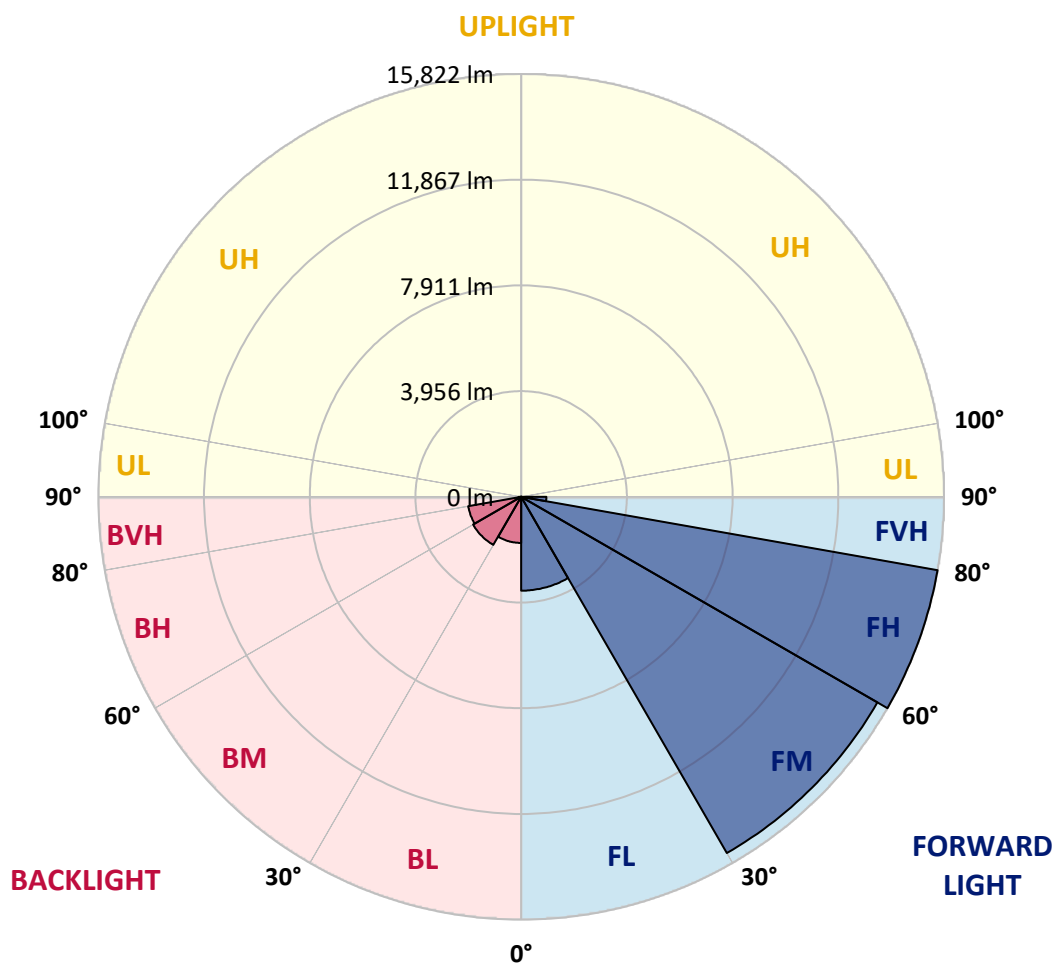
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3511.3	8.4			
FM	(30°-60°)	15392.4	37.0			
FH	(60°-80°)	15822.4	38.0			G5
FVH	(80°-90°)	942.8	2.3			G5
BL	(0°-30°)	1726.0	4.2	B3/2500		
BM	(30°-60°)	2078.5	5.0	B2/2500		
BH	(60°-80°)	2011.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	100.5	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5
2.5°	10813.5	10837.7	10827.6	10821.5	10839.6	10811.4	10753.2	10735.2	10707.0	10640.8	10528.2
5°	10407.7	10480.0	10476.0	10530.2	10620.6	10644.7	10618.6	10622.6	10570.4	10488.1	10301.2
7.5°	9706.6	9736.7	9752.8	9871.3	10036.1	10168.6	10281.2	10317.4	10293.2	10222.9	9981.8
10°	8983.4	9007.6	9045.7	9184.4	9393.2	9576.0	9789.0	9911.6	9963.8	9951.7	9682.5
12.5°	8362.7	8386.8	8437.0	8593.8	8842.8	9067.9	9377.1	9529.8	9654.3	9728.8	9439.5
15°	7806.2	7858.5	7906.8	8087.5	8366.7	8662.1	9011.6	9204.4	9397.3	9564.0	9224.5
17.5°	7372.4	7424.6	7452.7	7617.4	7914.7	8276.4	8686.1	8913.2	9154.2	9427.4	9011.6
20°	7121.3	7145.3	7133.3	7225.8	7492.9	7876.6	8362.7	8625.9	8917.2	9298.8	8798.6
22.5°	7050.9	7053.0	7008.8	6998.7	7171.4	7494.8	8017.2	8336.6	8694.2	9214.5	8615.8
25°	7221.7	7215.7	7095.2	6996.8	7014.8	7203.7	7683.7	8055.3	8507.4	9196.4	8475.2
27.5°	7601.3	7619.4	7440.7	7255.9	7073.0	7067.0	7430.6	7822.3	8354.7	9278.8	8414.9
30°	8133.7	8163.9	7972.9	7738.0	7394.4	7111.2	7332.2	7683.7	8260.2	9449.5	8404.9
32.5°	8716.2	8748.4	8603.7	8356.7	7906.8	7384.4	7400.4	7695.7	8256.2	9688.6	8473.2
35°	9337.0	9373.2	9298.8	9090.0	8589.8	7888.6	7661.7	7890.7	8386.8	10054.1	8656.1
37.5°	10030.0	10086.3	10106.4	9907.5	9373.2	8553.6	8089.5	8260.2	8682.2	10562.4	8991.5
40°	11028.4	11106.8	11100.7	10815.5	10271.1	9451.5	8750.5	8794.6	9142.2	11241.3	9527.9
42.5°	12940.7	12956.9	12456.6	11835.9	11259.5	10395.7	9529.8	9493.6	9776.9	12101.1	10317.4
45°	15373.6	15307.2	14194.3	12995.1	12292.0	11480.4	10544.3	10367.5	10582.6	13149.8	11305.6
47.5°	17392.3	17239.7	15833.6	14178.2	13384.8	12659.6	11735.5	11426.3	11544.7	14338.9	12583.3
50°	18093.5	17978.9	16813.8	15162.6	14419.3	14097.9	13202.1	12764.1	12796.2	15757.2	14079.8
52.5°	17942.8	17926.7	17149.4	15811.5	15387.5	15608.6	15279.2	14686.5	14373.2	17332.2	15694.9
55°	17587.3	17621.4	17340.1	16566.8	16494.5	17067.0	17993.1	17555.1	16580.8	18921.1	17364.2
57.5°	16351.8	16440.2	17058.8	17516.9	18276.3	19128.0	20178.6	20054.1	18957.2	20638.6	19348.9
60°	13173.8	13378.8	15038.0	17332.2	20110.3	22774.0	23244.1	22954.9	21408.0	22769.9	21970.5
62.5°	9230.6	9443.5	11416.2	15005.8	19809.0	26892.1	28724.2	27476.6	24927.5	25909.7	25363.3
65°	4941.7	5044.2	6550.7	10411.8	16723.4	27741.8	36733.3	34835.0	30499.9	29780.8	28266.1
67.5°	2726.0	2782.2	3358.7	5257.1	10711.0	24429.3	41835.7	43270.1	37464.6	32358.1	27737.7
69°	2464.8	2517.0	2894.8	3981.5	7167.5	20198.6	41337.4	45493.8	40517.9	32103.0	25785.1
70°	2410.6	2458.8	2798.2	3670.1	5801.4	16649.2	39668.2	44925.3	41245.2	31188.9	24081.8
72.5°	2169.6	2221.8	2551.2	3296.5	4957.7	8300.4	31422.0	37984.7	37446.4	27042.8	18266.2
75°	2022.9	2071.1	2629.6	3228.2	4746.9	5253.0	20715.0	27995.0	27526.9	18917.0	9849.2
77.5°	865.8	861.8	1219.4	2732.0	4817.1	5086.3	11130.9	17488.8	15956.1	8085.5	2828.4
80°	578.5	568.4	578.5	803.5	4417.4	5114.4	5831.6	8877.0	6705.5	2061.0	1394.1
82.5°	498.2	490.1	508.3	490.1	1552.8	5837.6	4957.7	4720.8	3187.9	1171.1	691.1
85°	335.4	321.4	437.9	439.9	733.2	5186.7	5584.6	3987.5	2579.3	695.0	341.6
87.5°	160.7	156.7	255.1	311.4	429.9	2107.3	6265.5	4086.0	2601.5	355.5	162.7
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°	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5	10596.5
2.5°	10494.2	10411.8	10331.3	10235.0	10134.5	10022.1	9965.7	9909.5	9895.5	9879.3	9823.2
5°	10204.9	10088.4	9887.4	9666.5	9433.5	9206.4	9033.7	8925.2	8842.8	8800.7	8726.3
7.5°	9831.1	9660.3	9308.9	8927.2	8535.5	8177.9	7868.6	7673.8	7488.8	7402.6	7304.1
10°	9475.6	9220.5	8674.1	8111.6	7549.2	7008.8	6500.6	6140.9	5821.6	5642.8	5516.2
12.5°	9170.2	8820.7	8063.5	7302.1	6530.7	5761.3	4999.9	4401.3	3901.1	3638.0	3503.4
15°	8873.0	8451.1	7482.8	6516.7	5526.3	4479.6	3479.3	2800.4	2386.4	2221.8	2165.5
17.5°	8603.7	8063.5	6900.3	5725.1	4489.7	3224.1	2338.2	1964.6	1805.9	1751.7	1733.6
20°	8312.6	7671.6	6295.6	4897.5	3409.0	2253.9	1826.0	1661.3	1597.1	1581.0	1572.9
22.5°	8031.3	7286.0	5717.1	4011.6	2448.7	1739.6	1568.9	1500.5	1490.6	1504.6	1504.6
25°	7792.3	6940.4	5092.3	3085.6	1797.9	1464.4	1404.2	1388.1	1426.3	1478.5	1488.5
27.5°	7613.4	6657.2	4427.4	2278.0	1432.3	1273.6	1271.6	1297.7	1392.1	1492.6	1512.7
30°	7491.0	6388.1	3716.4	1643.3	1201.3	1120.9	1153.0	1209.3	1347.9	1490.6	1528.7
32.5°	7428.6	6189.2	2975.0	1271.6	1028.5	984.3	1038.5	1106.9	1243.5	1376.0	1426.3
35°	7476.8	6042.6	2276.0	1060.7	908.0	873.8	930.2	996.3	1076.8	1133.0	1171.1
37.5°	7657.7	5984.2	1717.5	950.1	825.7	793.4	837.7	875.8	908.0	924.0	942.2
40°	8047.4	6046.5	1376.0	894.0	779.4	739.2	757.2	771.4	791.5	807.5	815.6
42.5°	8621.8	6233.3	1233.4	871.8	755.3	697.1	693.0	699.0	725.2	755.3	761.3
45°	9425.4	6562.7	1223.3	885.9	743.3	662.8	644.8	652.9	693.0	739.2	747.4
47.5°	10451.8	7065.0	1303.7	928.0	753.4	644.8	614.7	624.8	675.0	737.3	747.4
50°	11695.3	7766.1	1438.3	990.3	797.5	648.9	604.6	610.6	662.8	731.2	741.3
52.5°	13163.8	8760.5	1585.0	1050.6	843.7	675.0	612.7	598.6	646.9	707.1	719.2
55°	14797.0	10036.1	1735.6	1104.8	867.8	707.1	628.8	582.6	616.7	666.9	677.0
57.5°	16801.8	11819.8	1996.8	1157.0	883.9	729.2	644.8	566.5	578.5	614.7	622.8
60°	19515.7	14343.0	2456.8	1243.5	920.1	737.3	642.8	552.5	540.4	560.5	564.5
62.5°	22768.0	17083.0	2840.5	1352.0	980.3	743.3	630.8	542.4	508.3	508.3	512.2
65°	24698.5	17816.3	2627.5	1442.3	1030.6	737.3	616.7	532.3	484.1	462.0	464.1
67.5°	23061.3	15668.8	2252.0	1460.4	1028.5	709.1	594.6	514.3	460.0	425.9	423.8
69°	21010.2	13519.4	2083.1	1412.1	980.3	672.9	566.5	494.2	442.0	405.8	403.8
70°	19357.0	12207.6	1972.6	1360.0	928.0	646.9	544.4	476.1	427.9	393.8	389.7
72.5°	14073.8	7999.1	1685.5	1169.2	765.4	542.4	470.1	417.8	381.7	361.5	357.6
75°	7032.9	3814.8	1368.0	948.2	586.6	433.9	385.6	349.5	331.5	327.4	325.5
77.5°	2310.2	1747.7	978.3	707.1	436.0	339.5	311.4	285.2	281.3	293.3	289.3
80°	1269.6	1016.4	620.7	468.0	297.3	249.1	245.1	231.0	237.1	257.1	253.2
82.5°	646.9	528.3	383.7	281.3	200.9	178.7	194.8	186.9	194.8	212.9	211.0
85°	319.4	289.3	243.1	170.8	132.5	114.5	138.6	144.7	148.7	162.7	162.7
87.5°	184.7	170.8	128.6	80.3	66.3	60.3	80.3	78.3	92.5	100.4	98.5
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)