

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: P193170

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7762.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



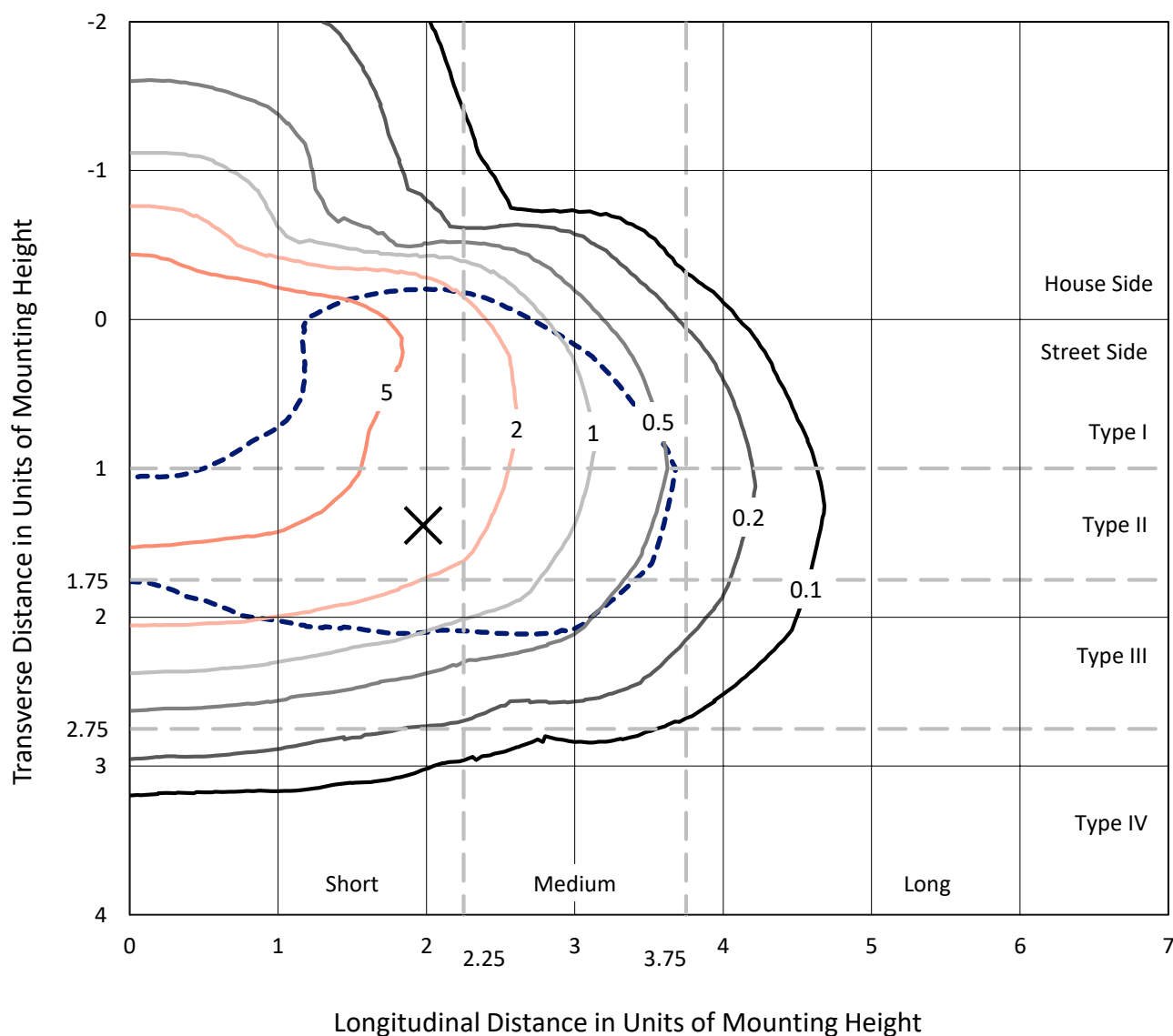
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

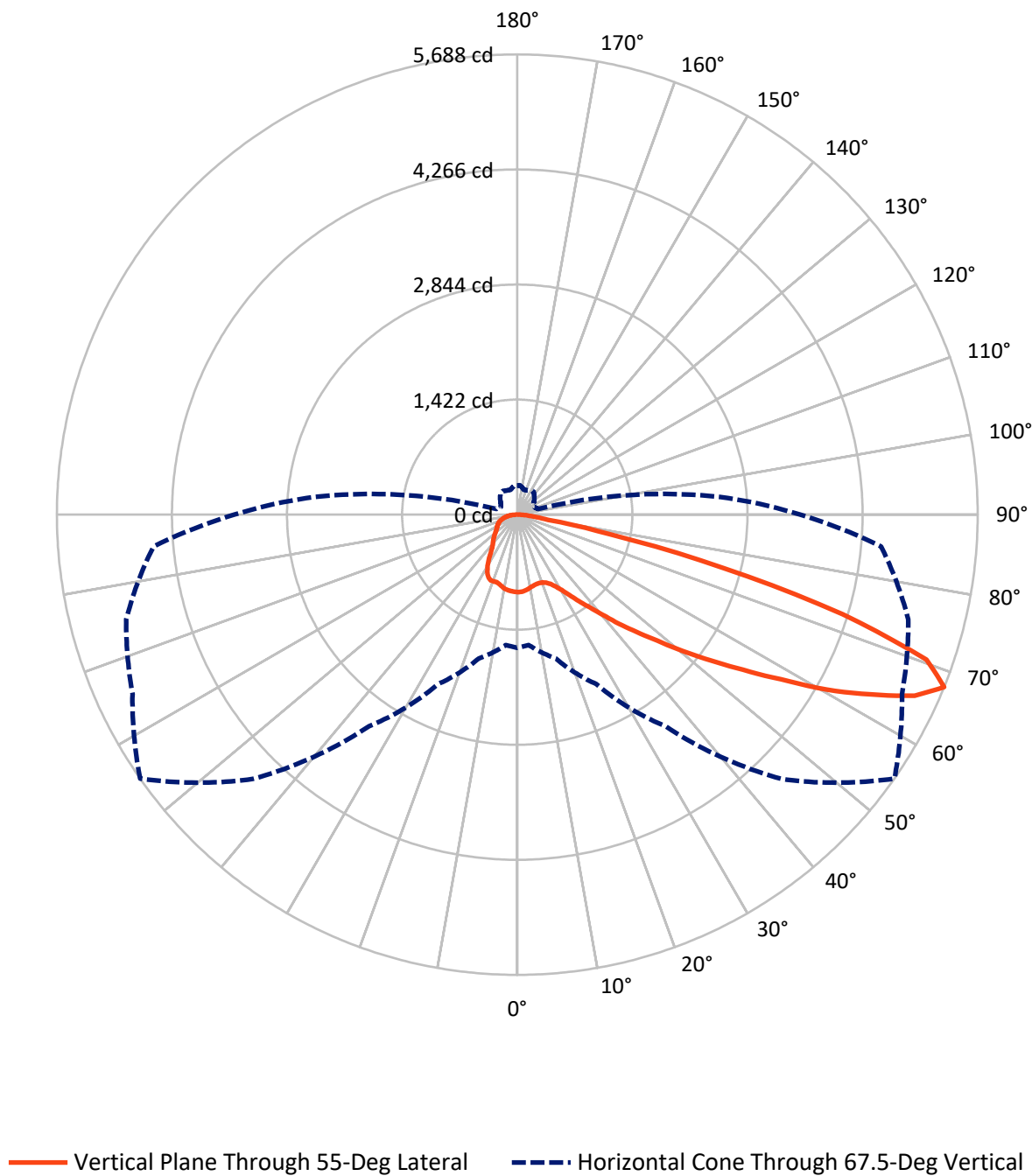


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.0	0.0	1677.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6085.9	0.0	6085.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	7762.9	0.0	7762.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.2
10°-20°	253.0	3.3
20°-30°	423.9	5.5
30°-40°	697.1	9.0
40°-50°	1173.4	15.1
50°-60°	1846.8	23.8
60°-70°	2203.9	28.4
70°-80°	946.4	12.2
80°-90°	129.0	1.7
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°	7762.9	100.0
0°-180°	7762.9	100.0

Coefficient of Utilization



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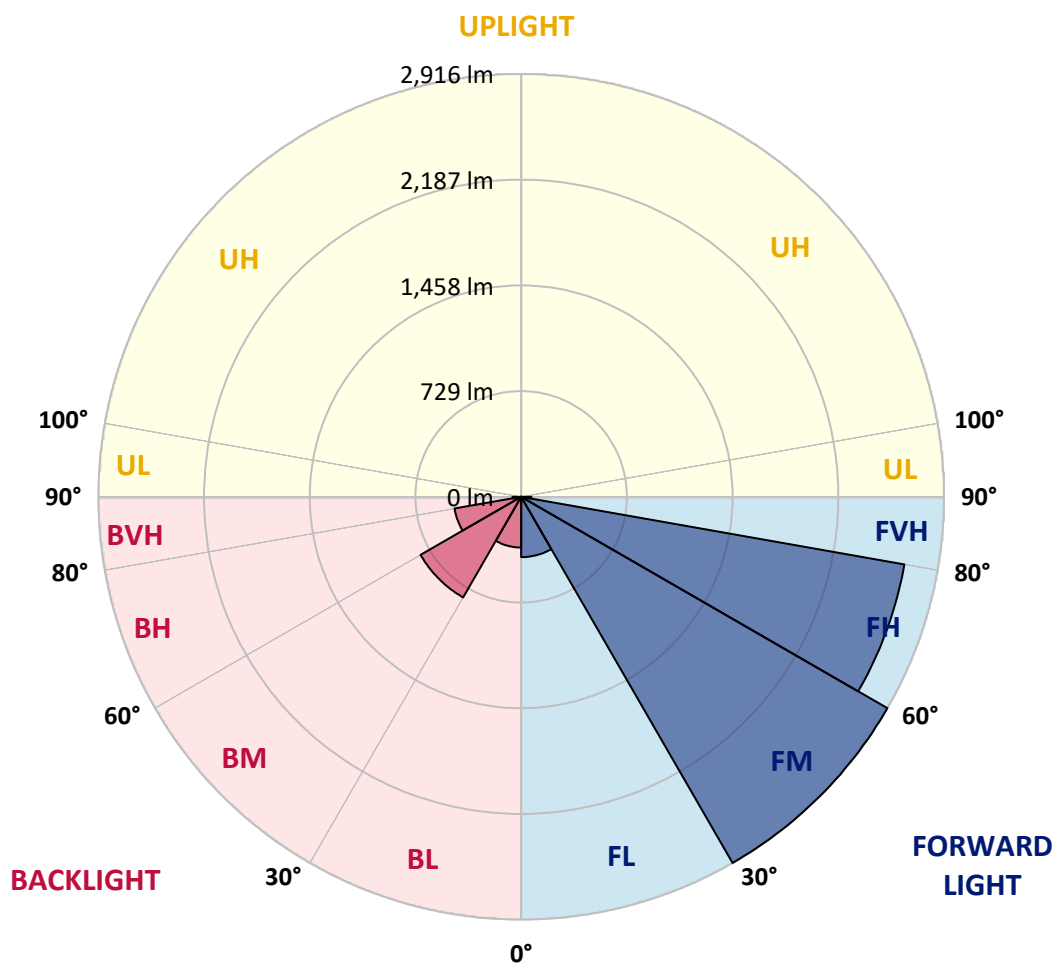
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.1	5.4			
FM	(30°-60°)	2916.3	37.6			
FH	(60°-80°)	2683.7	34.6			G2/5000
FVH	(80°-90°)	69.8	0.9			G1/100
BL	(0°-30°)	350.2	4.5	B1/500		
BM	(30°-60°)	800.9	10.3	B1/1000		
BH	(60°-80°)	466.7	6.0	B1/500		G1/500
BVH	(80°-90°)	59.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	949.0	949.4	950.1	953.1	955.8	955.0	955.4	953.9	953.5	951.2	953.5
5°	937.0	938.1	938.5	943.4	946.4	947.2	945.9	944.1	942.0	939.6	940.7
7.5°	909.6	912.7	913.0	919.8	924.7	931.0	931.3	931.8	930.7	929.1	931.3
10°	892.4	893.0	892.7	897.7	901.4	908.5	912.7	919.8	922.8	923.5	925.0
12.5°	891.2	890.5	889.4	889.4	888.3	891.2	898.7	908.9	916.0	918.3	920.1
15°	903.2	902.9	899.1	893.5	886.4	884.1	890.5	901.7	911.1	916.0	917.9
17.5°	930.3	928.0	922.0	909.2	893.8	887.8	888.6	898.0	908.9	915.3	917.1
20°	979.7	979.7	967.0	943.0	915.6	901.4	894.7	900.3	910.7	919.4	922.0
22.5°	1065.3	1066.0	1044.6	1005.3	959.1	928.7	911.9	910.7	923.1	932.8	936.0
25°	1186.3	1183.4	1153.3	1097.1	1027.0	976.8	947.5	940.7	951.2	962.1	965.9
27.5°	1327.3	1316.5	1280.8	1213.0	1122.2	1048.8	1003.8	992.8	1003.0	1015.3	1019.1
30°	1466.8	1455.6	1413.2	1339.0	1238.1	1145.1	1080.6	1063.0	1077.2	1094.9	1097.1
32.5°	1606.3	1606.3	1559.0	1472.4	1362.6	1260.2	1183.0	1162.0	1185.6	1207.0	1211.8
35°	1773.2	1774.0	1728.2	1623.9	1505.8	1397.4	1312.3	1296.9	1332.5	1347.6	1359.1
37.5°	1978.2	1982.4	1923.5	1797.6	1668.2	1554.2	1452.9	1432.0	1467.6	1508.5	1545.9
40°	2199.8	2205.1	2140.2	1985.0	1855.7	1736.3	1626.9	1589.0	1648.2	1726.3	1774.6
42.5°	2411.4	2438.3	2375.8	2216.0	2076.8	1953.4	1842.5	1787.4	1861.7	1979.3	2021.4
45°	2716.8	2736.4	2627.2	2482.6	2351.7	2213.7	2066.7	2008.6	2112.4	2260.9	2269.6
47.5°	2920.5	2905.9	2850.3	2760.3	2677.5	2548.6	2327.3	2263.6	2401.5	2576.4	2527.9
50°	3028.8	3033.4	3025.8	3031.1	3034.1	2953.1	2646.8	2559.4	2724.1	2935.1	2823.7
52.5°	3130.1	3100.1	3124.9	3247.8	3396.4	3366.3	2994.4	2903.2	3069.7	3333.3	3136.5
55°	3127.9	3082.1	3162.7	3379.8	3701.9	3736.3	3384.7	3279.6	3435.3	3760.3	3467.9
57.5°	3017.2	3019.5	3143.6	3427.8	3914.9	4084.3	3837.6	3680.2	3823.0	4193.1	3770.5
60°	2865.0	2885.6	3064.5	3420.0	4085.4	4369.8	4393.4	4111.7	4202.7	4586.3	4021.0
62.5°	2619.4	2641.2	2887.8	3338.2	4059.5	4644.5	4895.7	4601.4	4600.0	4824.9	4094.5
65°	2232.0	2225.7	2484.8	3032.6	3842.5	4847.8	5394.7	5024.8	4899.0	4828.6	3946.8
67.5°	1646.0	1617.6	1839.9	2309.7	3193.8	4620.1	5688.4	5245.2	5001.2	4511.0	3495.3
70°	854.2	825.7	1005.6	1348.7	2100.5	3605.9	5363.3	5131.2	4775.7	3781.4	2738.2
72.5°	365.3	360.3	433.4	591.6	1016.1	2079.9	4205.4	4441.3	4097.9	2817.4	1882.6
75°	245.7	244.0	271.5	322.5	457.0	844.0	2631.7	3152.5	2998.1	1746.8	1058.8
77.5°	192.8	190.8	206.9	231.7	296.2	332.9	1168.0	1692.5	1566.6	760.5	463.5
80°	150.8	149.2	159.3	172.8	212.9	210.0	384.4	673.4	521.1	291.2	225.3
82.5°	118.9	118.9	127.1	127.5	151.1	143.2	200.6	296.6	260.2	169.9	138.0
85°	108.7	108.7	117.4	95.3	98.7	90.3	124.4	175.8	165.0	69.7	60.0
87.5°	54.7	53.2	98.7	84.3	53.6	48.0	60.7	85.1	91.4	38.6	30.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	952.7	952.4	953.1	953.5	956.4	960.6	962.5	965.1	966.6	965.9
5°	941.5	942.3	945.2	947.5	952.7	959.6	963.2	966.3	968.9	967.7
7.5°	932.1	933.9	938.5	940.4	943.4	945.2	944.9	945.9	948.3	945.6
10°	926.8	929.1	932.5	929.9	922.8	912.7	903.2	898.3	899.9	898.0
12.5°	921.6	924.7	922.0	909.6	889.8	876.6	869.4	870.2	873.6	874.4
15°	918.7	919.8	908.5	885.2	865.0	863.1	866.9	866.1	866.5	866.5
17.5°	918.7	915.6	894.7	871.4	862.7	859.5	847.8	833.1	826.8	824.5
20°	923.5	915.6	890.1	874.7	856.0	827.1	796.4	769.4	757.3	754.0
22.5°	938.1	924.7	902.9	876.3	823.0	774.6	725.9	693.7	672.0	668.1
25°	967.7	952.7	928.0	856.4	770.5	701.6	646.0	610.0	588.3	585.3
27.5°	1019.5	1009.8	941.5	812.6	700.8	626.9	575.6	547.8	531.6	530.6
30°	1097.5	1092.6	934.7	747.7	614.9	554.6	529.8	513.6	501.7	501.3
32.5°	1221.9	1182.6	912.7	668.5	536.6	503.1	493.1	483.4	473.9	473.9
35°	1382.0	1255.3	870.7	583.8	488.9	474.7	461.9	446.6	434.2	433.4
37.5°	1570.3	1300.3	795.3	515.6	466.4	455.6	436.8	414.0	392.2	388.4
40°	1760.3	1313.9	689.2	473.5	452.3	436.5	413.5	386.6	365.6	364.5
42.5°	1934.8	1287.9	576.7	444.6	437.9	417.0	392.9	369.0	352.5	352.1
45°	2081.0	1220.9	482.2	417.4	423.0	399.4	377.9	358.5	345.7	343.1
47.5°	2218.6	1126.0	415.8	388.4	408.0	389.6	371.6	353.2	340.8	338.9
50°	2378.3	1023.6	369.3	360.3	394.9	386.2	376.8	357.8	337.1	334.9
52.5°	2571.8	935.1	332.9	335.5	384.7	390.7	390.3	370.5	334.5	331.5
55°	2787.8	836.9	305.6	315.3	380.6	398.9	393.7	382.4	336.7	332.2
57.5°	3000.4	722.2	286.5	299.9	374.5	398.2	377.6	361.4	342.0	335.5
60°	3159.7	568.0	271.8	286.5	361.4	385.8	359.9	338.6	340.8	336.0
62.5°	3170.1	439.1	254.2	274.8	341.6	373.4	348.3	328.5	345.7	341.2
65°	2983.9	331.8	237.3	260.9	320.2	365.6	337.1	322.9	355.8	350.9
67.5°	2512.2	266.9	223.1	246.7	298.9	349.1	326.9	317.6	364.8	356.1
70°	1813.6	227.6	209.2	229.5	279.7	330.3	318.0	308.2	340.5	326.9
72.5°	1116.6	197.2	193.5	206.6	265.1	310.9	304.5	290.6	306.7	295.9
75°	557.6	171.0	175.8	184.1	244.4	288.7	282.0	268.1	270.3	268.1
77.5°	266.9	146.2	155.2	161.6	217.9	263.7	256.4	242.2	239.6	240.0
80°	169.2	122.3	130.9	135.4	194.6	234.4	227.3	212.9	243.0	225.3
82.5°	105.8	99.3	101.6	110.0	169.5	204.0	194.6	181.8	218.9	173.1
85°	58.5	69.4	72.3	79.5	130.4	170.6	161.2	145.1	130.1	127.9
87.5°	34.9	41.2	42.4	47.6	87.7	123.4	109.2	103.5	85.9	85.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)