

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: P193239

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193239
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-01-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6761 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

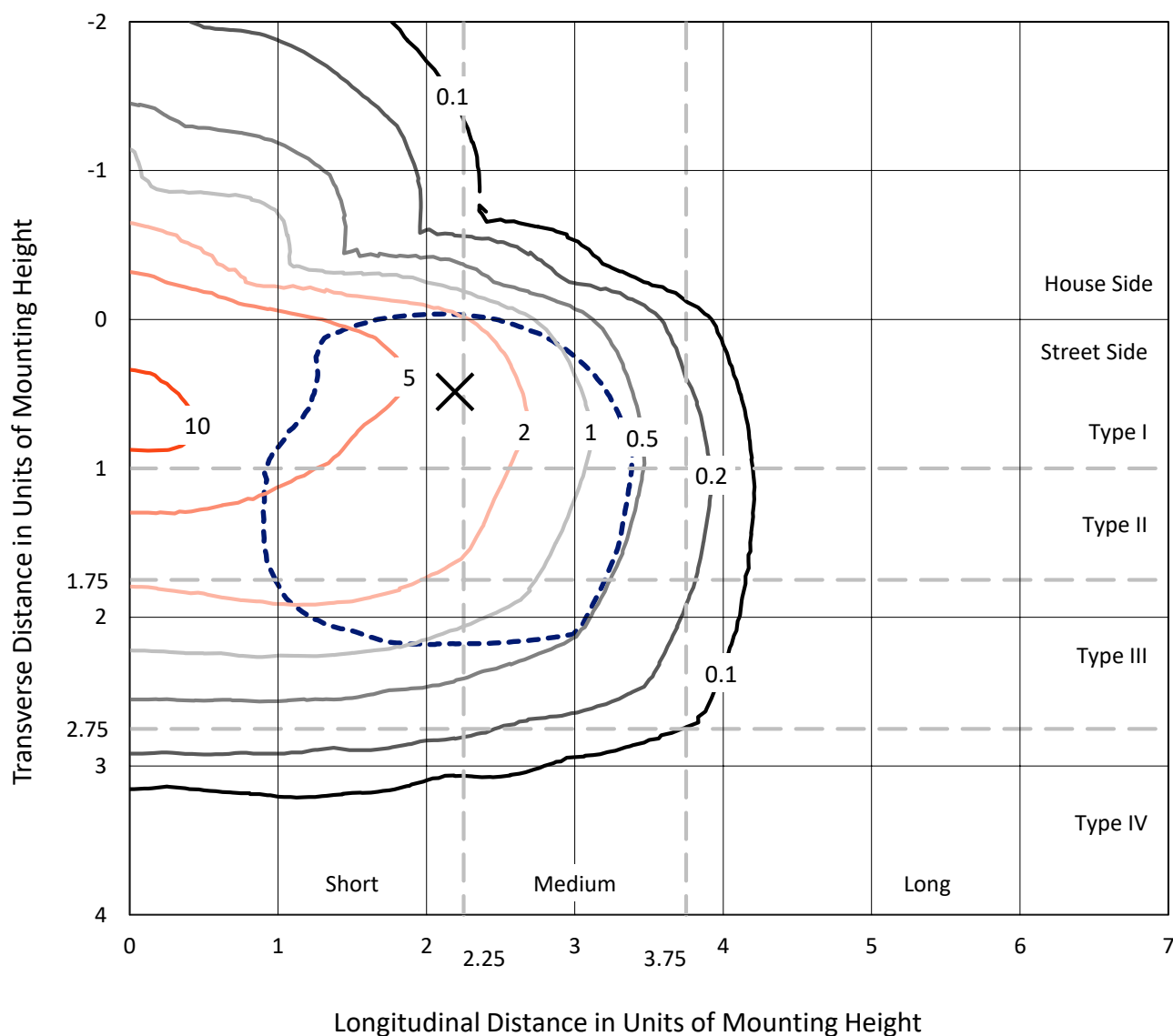


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

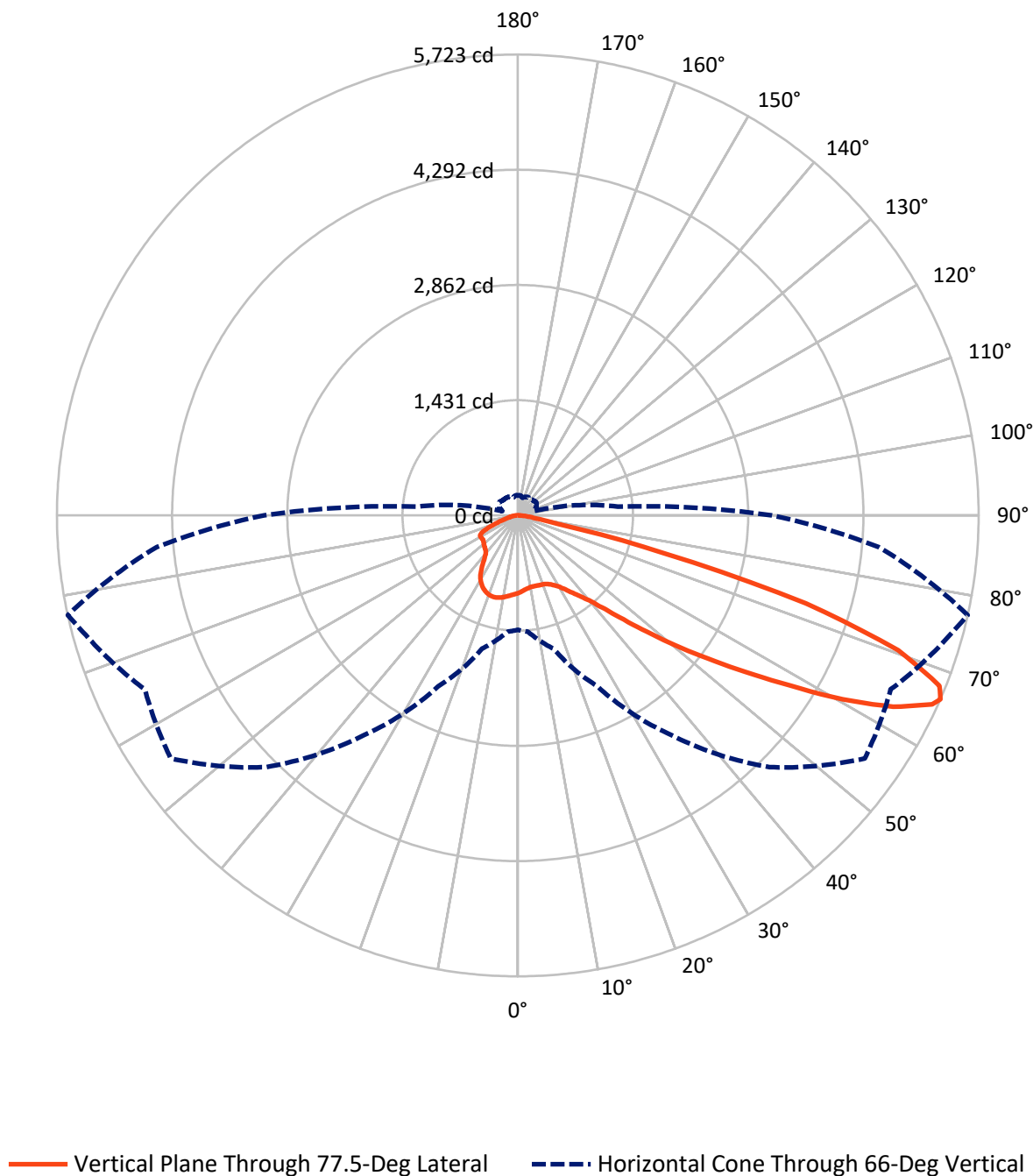


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.1	0.0	1155.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5605.9	0.0	5605.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	6761.0	0.0	6761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	1.3
10°-20°	242.8	3.6
20°-30°	414.4	6.1
30°-40°	663.5	9.8
40°-50°	1025.0	15.2
50°-60°	1453.8	21.5
60°-70°	1944.7	28.8
70°-80°	844.6	12.5
80°-90°	86.1	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°	6761.0	100.0
0°-180°	6761.0	100.0

Coefficient of Utilization



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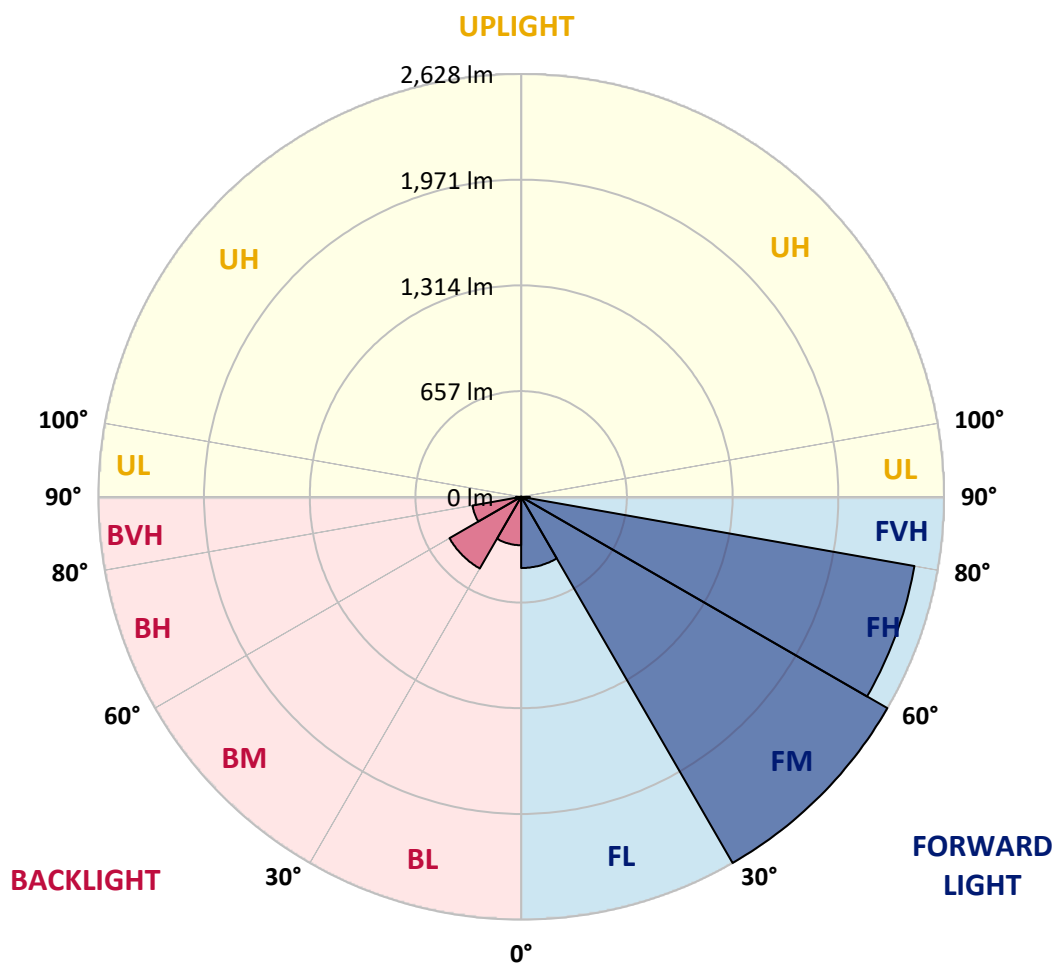
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.5	6.5			
FM	(30°-60°)	2627.7	38.9			
FH	(60°-80°)	2481.7	36.7			G2/5000
FVH	(80°-90°)	54.0	0.8			G1/100
BL	(0°-30°)	300.8	4.4	B1/500		
BM	(30°-60°)	514.5	7.6	B1/1000		
BH	(60°-80°)	307.6	4.5	B1/500		G1/500
BVH	(80°-90°)	32.1	0.5			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°	77.5°	85°
0°	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4
2.5°	852.3	858.0	862.8	867.3	876.3	890.9	907.8	921.6	941.4	945.3	955.8
5°	774.0	774.0	777.8	784.6	796.7	818.8	841.8	872.4	915.6	925.8	953.9
7.5°	736.0	736.3	738.6	744.3	754.9	774.9	800.3	836.4	894.9	911.8	959.7
10°	750.1	746.9	742.1	739.2	740.8	752.6	776.7	816.8	882.0	903.7	972.4
12.5°	828.6	822.6	806.0	783.9	762.8	754.2	768.3	807.5	876.6	901.8	989.4
15°	957.1	954.5	923.6	877.9	826.8	783.9	774.3	804.0	877.3	904.0	1009.4
17.5°	1118.0	1114.6	1073.7	1007.3	923.9	840.5	795.7	807.0	879.4	907.8	1029.0
20°	1280.7	1269.8	1225.8	1146.5	1039.5	917.4	831.3	814.3	882.4	912.0	1049.4
22.5°	1402.2	1393.2	1353.5	1276.5	1153.2	1006.6	878.8	827.1	891.5	924.3	1074.7
25°	1508.8	1509.4	1470.1	1395.7	1268.3	1101.2	940.1	861.3	915.3	949.1	1109.1
27.5°	1640.7	1633.0	1596.3	1522.5	1381.9	1196.7	1014.3	908.2	950.3	984.5	1154.6
30°	1798.5	1793.1	1750.6	1666.9	1508.1	1299.2	1098.9	962.8	995.7	1031.2	1213.9
32.5°	1984.1	1981.5	1937.5	1829.9	1653.8	1420.0	1198.2	1035.0	1063.4	1100.2	1299.2
35°	2202.0	2202.3	2150.2	2020.9	1813.2	1560.5	1311.0	1128.0	1145.9	1184.3	1400.8
37.5°	2336.2	2352.5	2333.0	2201.0	1993.7	1717.7	1457.3	1251.3	1239.8	1278.5	1509.8
40°	2364.9	2384.7	2446.4	2379.2	2195.6	1890.8	1587.0	1369.8	1355.5	1402.7	1650.0
42.5°	2324.7	2352.2	2482.5	2529.8	2409.9	2104.3	1761.5	1545.8	1527.7	1591.2	1824.4
45°	2300.7	2321.1	2471.9	2608.0	2595.9	2345.5	1983.5	1766.9	1760.1	1843.5	2025.6
47.5°	2259.2	2277.7	2422.8	2626.3	2705.2	2566.5	2250.2	2037.1	2050.2	2159.5	2252.8
50°	2281.6	2289.2	2367.7	2579.9	2736.7	2728.4	2548.3	2350.1	2395.0	2531.3	2509.9
52.5°	2278.4	2298.2	2361.4	2503.9	2740.9	2828.4	2841.9	2699.4	2793.6	2950.1	2795.2
55°	1842.0	1878.3	2286.4	2484.7	2755.6	2926.5	3103.2	3067.4	3243.1	3425.5	3117.1
57.5°	1758.8	1781.9	2008.0	2525.0	2833.5	3113.7	3393.8	3472.5	3766.3	3978.1	3509.5
60°	1742.5	1771.1	2005.2	2574.1	2991.6	3418.8	3824.8	3962.9	4403.0	4634.9	3964.4
62.5°	1691.8	1722.5	1986.4	2567.8	3216.3	3840.8	4376.5	4484.1	5006.8	5232.3	4344.9
65°	1530.8	1559.5	1832.8	2464.6	3367.7	4291.1	5029.4	4962.0	5483.4	5653.1	4534.6
66°	1420.6	1448.7	1711.6	2343.2	3332.5	4419.0	5260.8	5109.9	5590.1	5723.0	4497.5
67.5°	1219.0	1241.0	1476.5	2071.3	3145.7	4454.7	5455.4	5221.2	5601.2	5648.2	4285.8
70°	770.2	776.7	959.7	1429.8	2381.2	3863.4	5159.1	4945.1	5139.3	5012.2	3592.9
72.5°	334.2	331.9	460.6	727.4	1348.0	2592.4	4173.3	4080.4	4031.4	3741.5	2515.0
75°	186.0	188.5	239.3	337.6	547.8	1273.3	2730.1	2612.5	2205.8	1882.2	1140.4
77.5°	149.1	152.8	198.5	239.6	246.0	444.0	1277.5	1039.5	625.8	502.1	316.9
80°	117.9	124.2	173.1	186.7	165.7	183.0	412.8	330.0	247.6	227.2	164.2
82.5°	93.3	97.8	148.6	141.2	116.0	123.4	197.8	192.7	161.0	146.6	94.8
85°	67.0	75.4	122.1	106.4	76.1	83.0	131.3	125.8	92.4	75.4	41.8
87.5°	27.5	35.7	86.2	70.6	42.5	38.7	65.4	61.6	43.8	31.9	20.8
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°	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4	963.4
2.5°	962.5	970.2	980.0	986.2	989.4	991.5	995.2	994.8	995.7	996.0	997.3
5°	968.9	981.7	996.0	999.9	999.9	996.3	992.8	987.1	984.9	984.2	984.9
7.5°	985.5	999.6	1012.1	1007.6	998.0	983.9	965.8	949.7	941.2	938.2	937.6
10°	1006.6	1023.5	1028.6	1011.7	983.6	949.7	913.6	887.4	872.4	868.3	867.0
12.5°	1032.2	1048.2	1041.1	1005.3	953.3	898.6	848.8	807.0	775.6	765.7	765.2
15°	1060.3	1072.7	1048.2	985.5	907.8	827.4	738.6	666.4	627.3	614.9	614.0
17.5°	1086.5	1092.8	1044.0	951.0	841.1	710.7	592.9	537.3	523.9	527.0	527.7
20°	1108.9	1108.9	1029.9	901.5	736.0	557.1	482.7	481.8	491.3	501.0	502.8
22.5°	1133.4	1118.7	1005.3	831.6	587.2	455.8	445.0	454.0	464.8	475.4	476.9
25°	1163.7	1126.7	971.1	725.5	461.6	414.0	418.1	425.6	430.9	437.7	438.5
27.5°	1197.6	1137.0	926.1	579.5	400.6	387.8	391.0	393.6	392.9	395.5	396.2
30°	1238.2	1148.8	864.5	453.0	375.3	365.5	359.7	357.5	357.5	361.6	363.2
32.5°	1292.5	1166.4	776.0	388.1	363.2	349.5	330.9	322.7	325.8	339.9	343.1
35°	1352.2	1185.1	656.1	366.1	360.7	342.1	313.3	298.1	298.4	311.5	315.6
37.5°	1417.4	1209.2	524.9	361.9	366.4	342.4	304.1	283.0	274.5	274.5	276.0
40°	1500.7	1233.7	424.9	364.8	378.6	346.3	299.4	271.2	246.9	247.6	248.9
42.5°	1609.4	1254.9	371.2	370.9	393.3	351.4	299.1	255.5	234.5	248.9	262.0
45°	1730.1	1265.3	347.6	376.3	405.1	354.5	293.9	253.1	236.1	278.8	303.8
47.5°	1869.1	1259.3	334.5	378.2	408.0	354.5	288.1	259.1	247.3	323.0	352.1
50°	2021.6	1241.7	321.7	374.4	407.0	354.0	293.6	265.2	251.4	330.6	350.7
52.5°	2200.7	1227.0	308.2	366.1	400.3	350.4	299.9	262.6	238.3	300.6	314.6
55°	2405.2	1231.2	293.3	354.2	389.7	343.7	297.7	252.4	224.5	264.9	273.4
57.5°	2666.5	1280.7	275.4	339.2	375.3	332.5	289.7	247.6	220.3	240.3	245.3
60°	2958.0	1367.0	253.1	324.3	357.5	314.6	283.6	249.7	222.4	238.3	240.9
62.5°	3172.2	1417.1	233.9	302.2	333.2	294.9	276.0	252.7	227.5	245.1	244.4
65°	3230.4	1334.7	209.9	270.0	300.3	274.1	266.4	255.8	229.7	250.4	247.6
66°	3148.9	1245.9	199.3	254.9	283.6	263.9	261.6	255.5	228.7	251.1	246.3
67.5°	2951.1	1063.7	181.2	232.8	257.2	248.6	253.9	252.7	226.1	250.4	243.7
70°	2406.8	725.8	154.9	193.9	214.0	218.8	239.3	242.4	217.9	239.3	224.5
72.5°	1681.6	442.2	137.0	150.4	173.1	186.7	219.2	228.5	206.7	208.9	194.9
75°	812.7	234.8	124.2	116.6	134.5	155.9	194.9	209.2	189.1	174.7	169.7
77.5°	253.4	143.4	105.4	94.0	105.4	125.8	162.9	183.3	168.4	146.3	144.4
80°	136.1	105.4	81.2	75.4	83.4	98.7	128.1	153.1	144.7	131.3	117.2
82.5°	89.8	68.4	60.1	58.5	63.6	75.4	95.2	126.8	126.8	112.4	81.7
85°	46.3	41.8	41.2	41.2	44.4	50.1	64.9	97.8	104.2	59.4	49.1
87.5°	23.1	23.9	22.4	23.3	24.9	24.6	31.0	49.1	58.8	36.0	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

(END OF REPORT)