

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: P194010

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194010
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-02-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6695 lumens
Efficiency: N/A
Efficacy: 101.4 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

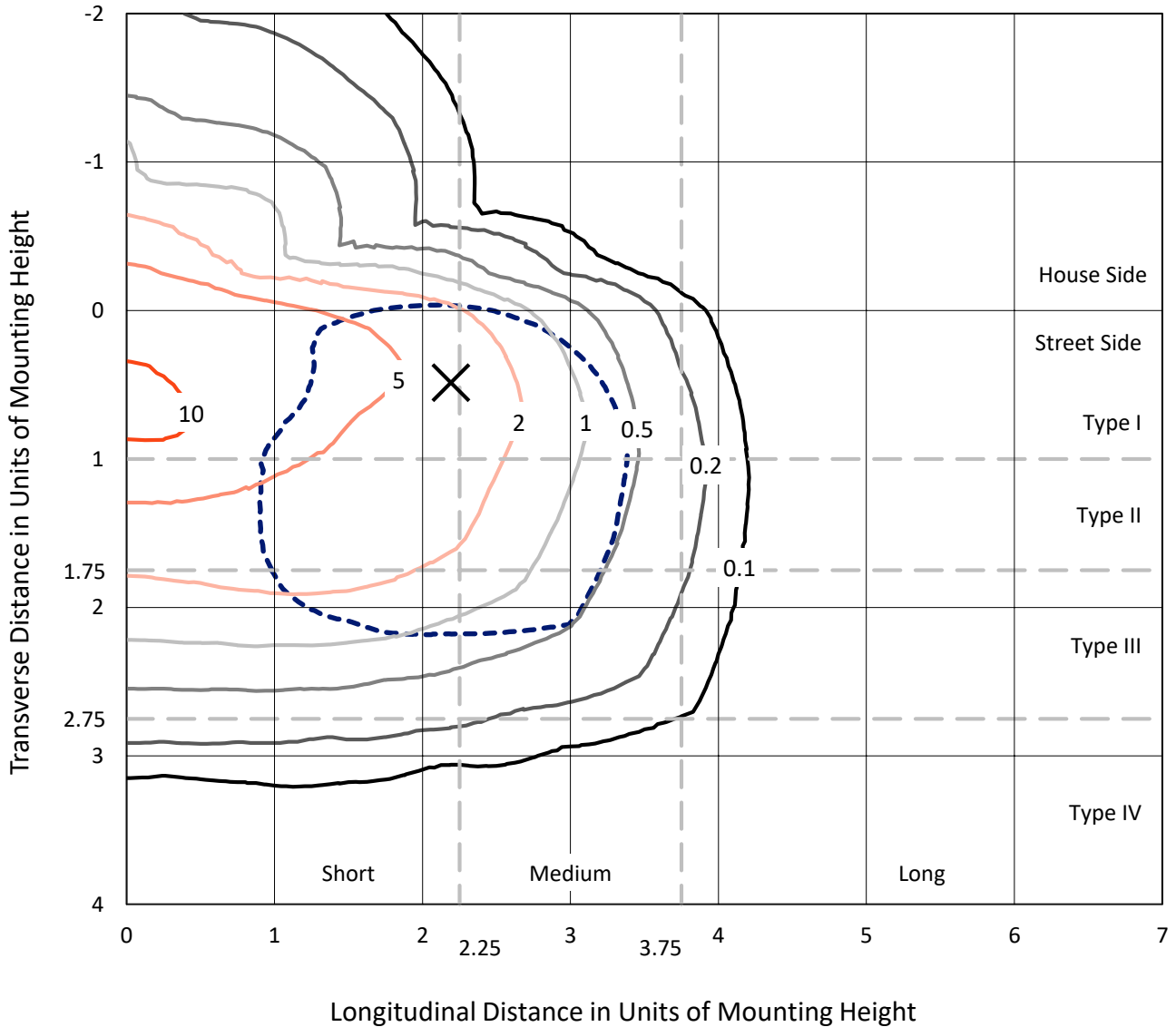


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Iso-Footcandle Lines of Horizontal Illumination

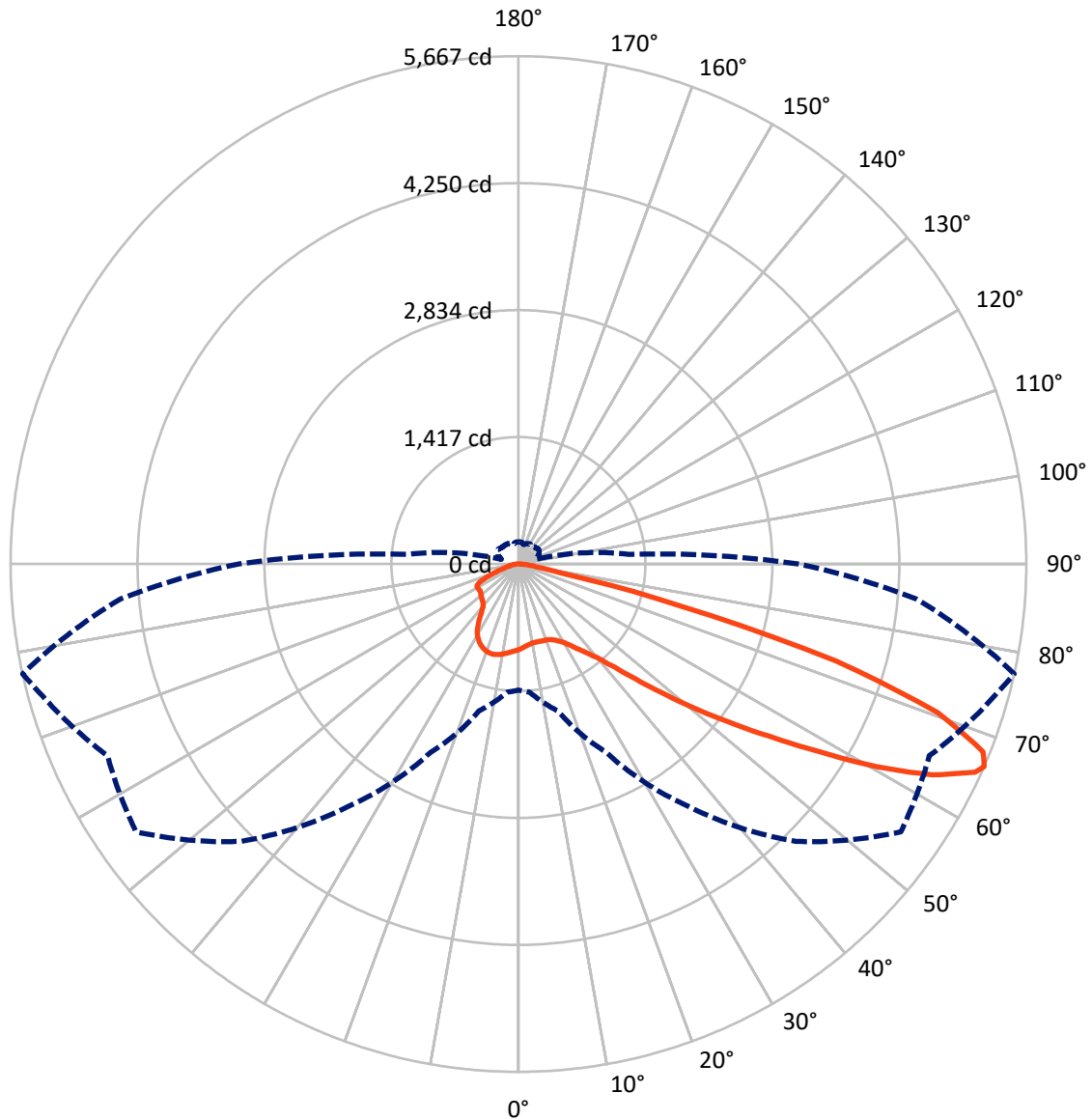
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.8	0.0	1143.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5551.2	0.0	5551.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	6695.0	0.0	6695.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	240.5	3.6
20°-30°	410.4	6.1
30°-40°	657.0	9.8
40°-50°	1015.0	15.2
50°-60°	1439.6	21.5
60°-70°	1925.8	28.8
70°-80°	836.3	12.5
80°-90°	85.3	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°	6695.0	100.0
0°-180°	6695.0	100.0



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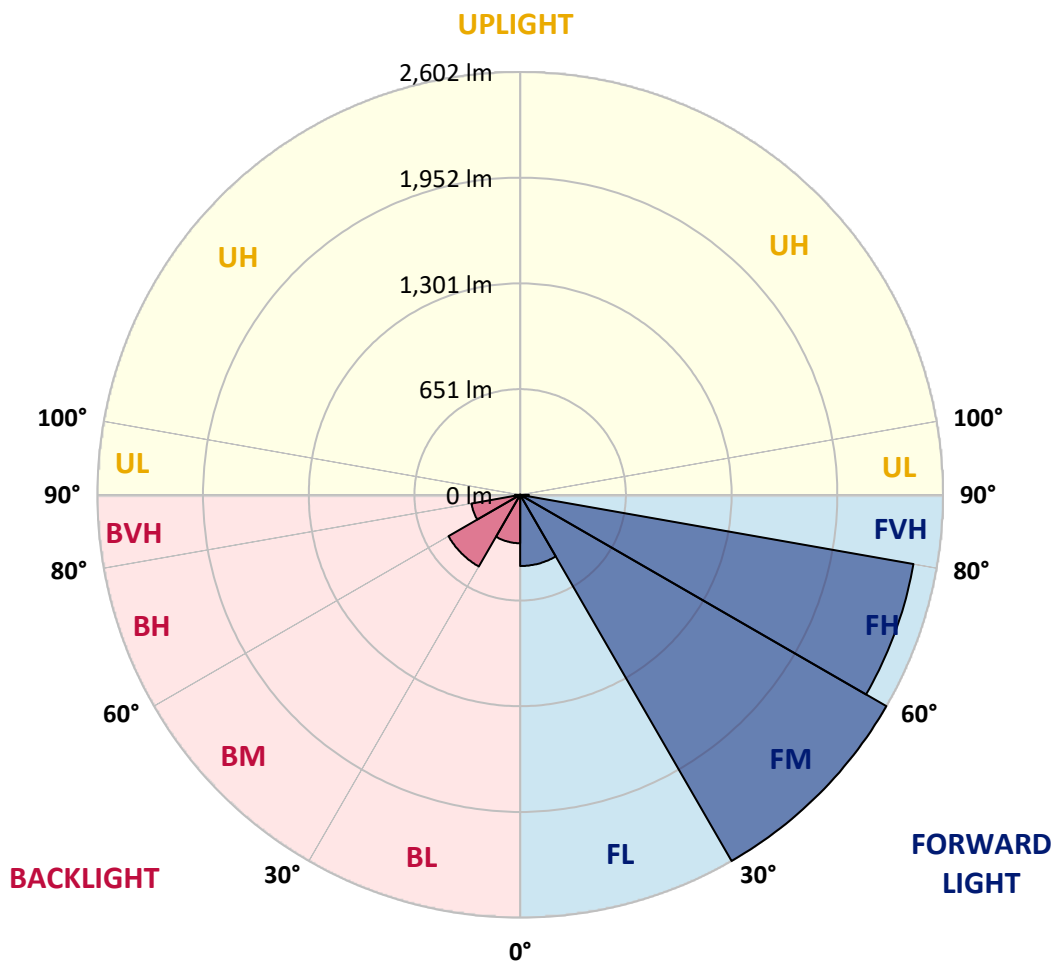
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.2	6.5			
FM	(30°-60°)	2602.0	38.9			
FH	(60°-80°)	2457.5	36.7			G2/5000
FVH	(80°-90°)	53.5	0.8			G1/100
BL	(0°-30°)	297.9	4.4	B1/500		
BM	(30°-60°)	509.5	7.6	B1/1000		
BH	(60°-80°)	304.6	4.5	B1/500		G1/500
BVH	(80°-90°)	31.8	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°	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1
2.5°	844.0	849.7	854.4	858.9	867.7	882.3	899.0	912.6	932.2	936.0	946.5
5°	766.5	766.5	770.3	776.9	788.9	810.8	833.5	863.9	906.6	916.7	944.6
7.5°	728.8	729.2	731.4	737.1	747.5	767.4	792.4	828.2	886.1	902.8	950.3
10°	742.8	739.6	734.8	732.0	733.6	745.3	769.0	808.9	873.4	894.9	962.9
12.5°	820.6	814.6	798.1	776.3	755.4	746.9	760.8	799.7	868.0	893.0	979.7
15°	947.7	945.2	914.5	869.3	818.7	776.3	766.8	796.2	868.7	895.2	999.6
17.5°	1107.2	1103.7	1063.2	997.4	914.8	832.3	788.0	799.1	870.9	899.0	1018.9
20°	1268.2	1257.4	1213.8	1135.3	1029.4	908.5	823.1	806.3	873.7	903.1	1039.2
22.5°	1388.4	1379.5	1340.3	1264.1	1142.0	996.8	870.2	819.0	882.9	915.2	1064.2
25°	1494.1	1494.7	1455.8	1382.1	1255.9	1090.4	931.0	852.8	906.3	939.8	1098.3
27.5°	1624.7	1617.1	1580.7	1507.7	1368.5	1185.0	1004.4	899.3	941.1	974.9	1143.2
30°	1781.0	1775.6	1733.5	1650.6	1493.4	1286.5	1088.2	953.4	986.0	1021.1	1202.1
32.5°	1964.8	1962.2	1918.6	1812.0	1637.7	1406.1	1186.6	1024.9	1053.1	1089.5	1286.5
35°	2180.5	2180.8	2129.3	2001.1	1795.5	1545.3	1298.2	1117.0	1134.7	1172.7	1387.1
37.5°	2313.4	2329.5	2310.2	2179.6	1974.3	1700.9	1443.1	1239.1	1227.7	1266.0	1495.0
40°	2341.8	2361.4	2422.5	2356.1	2174.2	1872.4	1571.6	1356.4	1342.2	1389.0	1633.9
42.5°	2302.0	2329.2	2458.2	2505.1	2386.4	2083.7	1744.3	1530.7	1512.7	1575.7	1806.6
45°	2278.3	2298.5	2447.8	2582.6	2570.5	2322.5	1964.1	1749.7	1743.0	1825.6	2005.9
47.5°	2237.1	2255.5	2399.1	2600.6	2678.7	2541.4	2228.3	2017.3	2030.2	2138.4	2230.8
50°	2259.3	2266.9	2344.7	2554.7	2710.1	2701.8	2523.4	2327.3	2371.6	2506.6	2485.5
52.5°	2256.1	2275.7	2338.4	2479.4	2714.2	2800.8	2814.1	2673.0	2766.4	2921.4	2767.9
55°	1824.0	1860.1	2264.0	2460.5	2728.7	2898.0	3072.9	3037.5	3211.4	3392.1	3086.8
57.5°	1741.7	1764.5	1988.5	2500.3	2805.9	3083.3	3360.8	3438.6	3729.6	3939.3	3475.3
60°	1725.6	1753.8	1985.6	2549.0	2962.5	3385.4	3787.5	3924.1	4360.1	4589.7	3925.7
62.5°	1675.3	1705.7	1967.0	2542.7	3184.9	3803.3	4333.8	4440.4	4957.9	5181.3	4302.5
65°	1515.9	1544.4	1814.8	2440.5	3334.8	4249.3	4980.4	4913.6	5429.9	5597.9	4490.4
66°	1406.7	1434.6	1694.9	2320.3	3300.0	4375.9	5209.4	5060.1	5535.6	5667.2	4453.7
67.5°	1207.1	1229.0	1462.1	2051.1	3115.0	4411.3	5402.1	5170.2	5546.6	5593.1	4244.0
70°	762.7	769.0	950.3	1415.9	2358.0	3825.8	5108.8	4896.9	5089.2	4963.3	3557.8
72.5°	330.9	328.7	456.2	720.3	1334.9	2567.1	4132.6	4040.6	3992.2	3704.9	2490.5
75°	184.1	186.6	236.9	334.4	542.5	1260.9	2703.4	2587.0	2184.3	1863.9	1129.3
77.5°	147.7	151.2	196.4	237.3	243.6	439.7	1265.0	1029.4	619.7	497.3	313.8
80°	116.7	123.1	171.5	184.7	164.2	181.3	408.7	326.8	245.2	224.9	162.6
82.5°	92.4	96.8	147.1	139.8	114.8	122.1	195.8	190.8	159.4	145.2	94.0
85°	66.4	74.7	120.8	105.3	75.3	82.2	130.0	124.6	91.4	74.7	41.4
87.5°	27.2	35.4	85.4	69.9	42.1	38.3	64.8	61.1	43.3	31.6	20.6
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°	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1
2.5°	953.1	960.7	970.5	976.5	979.7	981.9	985.4	985.1	986.0	986.3	987.6
5°	959.4	972.1	986.3	990.1	990.1	986.7	983.2	977.5	975.3	974.6	975.3
7.5°	975.9	989.8	1002.2	997.7	988.2	974.3	956.3	940.5	931.9	929.1	928.4
10°	996.8	1013.5	1018.6	1001.8	974.0	940.5	904.7	878.8	863.9	859.8	858.5
12.5°	1022.1	1037.9	1030.9	995.5	943.9	889.9	840.5	799.1	768.1	758.3	757.6
15°	1049.9	1062.3	1037.9	975.9	899.0	819.3	731.4	659.9	621.3	608.9	608.0
17.5°	1075.9	1082.2	1033.8	941.7	832.9	703.8	587.1	532.1	518.8	522.0	522.6
20°	1098.0	1098.0	1019.9	892.7	728.8	551.7	478.0	477.0	486.5	496.0	497.9
22.5°	1122.4	1107.8	995.5	823.4	581.4	451.4	440.7	449.5	460.3	470.7	472.3
25°	1152.4	1115.7	961.7	718.4	457.1	410.0	414.1	421.4	426.7	433.4	434.3
27.5°	1185.9	1125.8	917.1	573.8	396.7	384.0	387.2	389.7	389.1	391.6	392.3
30°	1226.1	1137.5	856.0	448.6	371.7	361.9	356.2	354.0	354.0	358.1	359.7
32.5°	1279.9	1154.9	768.4	384.3	359.7	346.1	327.7	319.5	322.7	336.6	339.7
35°	1339.1	1173.6	649.8	362.5	357.1	338.8	310.3	295.1	295.5	308.4	312.5
37.5°	1403.6	1197.3	519.7	358.4	362.8	339.1	301.2	280.3	271.7	271.7	273.3
40°	1486.1	1221.7	420.7	361.3	374.9	342.9	296.4	268.6	244.5	245.2	246.4
42.5°	1593.7	1242.6	367.6	367.3	389.4	348.0	296.1	253.1	232.2	246.4	259.4
45°	1713.3	1253.0	344.2	372.6	401.1	351.1	291.0	250.5	233.8	276.2	300.8
47.5°	1850.9	1247.0	331.2	374.5	404.0	351.1	285.3	256.5	244.8	319.8	348.6
50°	2001.8	1229.6	318.6	370.7	403.0	350.5	290.7	262.6	249.0	327.4	347.3
52.5°	2179.2	1215.0	305.3	362.5	396.4	347.0	297.0	260.0	236.0	297.7	311.6
55°	2381.7	1219.2	290.4	350.8	385.9	340.4	294.8	249.9	222.4	262.2	270.8
57.5°	2640.5	1268.2	272.7	335.9	371.7	329.3	286.9	245.2	218.3	237.9	242.9
60°	2929.3	1353.6	250.5	321.1	354.0	311.6	280.9	247.4	220.2	236.0	238.5
62.5°	3141.2	1403.3	231.6	299.3	329.9	292.0	273.3	250.2	225.2	242.6	242.0
65°	3198.8	1321.7	207.8	267.3	297.4	271.4	263.8	253.4	227.4	248.0	245.2
66°	3118.1	1233.7	197.4	252.4	280.9	261.3	259.1	253.1	226.5	248.6	243.9
67.5°	2922.3	1053.4	179.4	230.6	254.7	246.1	251.5	250.2	224.0	248.0	241.4
70°	2383.3	718.7	153.4	192.0	211.9	216.7	236.9	240.1	215.7	236.9	222.4
72.5°	1665.2	437.8	135.7	149.0	171.5	184.7	217.0	226.2	204.7	206.9	193.0
75°	804.8	232.5	123.1	115.5	133.2	154.4	193.0	207.2	187.3	173.0	168.0
77.5°	250.9	142.0	104.4	93.0	104.4	124.6	161.3	181.6	166.7	144.9	143.0
80°	134.8	104.4	80.3	74.7	82.6	97.7	126.9	151.5	143.3	130.0	116.1
82.5°	88.9	67.7	59.5	57.9	63.0	74.7	94.3	125.6	125.6	111.4	81.0
85°	45.9	41.4	40.8	40.8	44.0	49.7	64.2	96.8	103.1	58.8	48.7
87.5°	22.8	23.7	22.1	23.1	24.7	24.4	30.7	48.7	58.2	35.7	29.7
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)