

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: P192839

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192839
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-01-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE 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: 6476.9 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-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

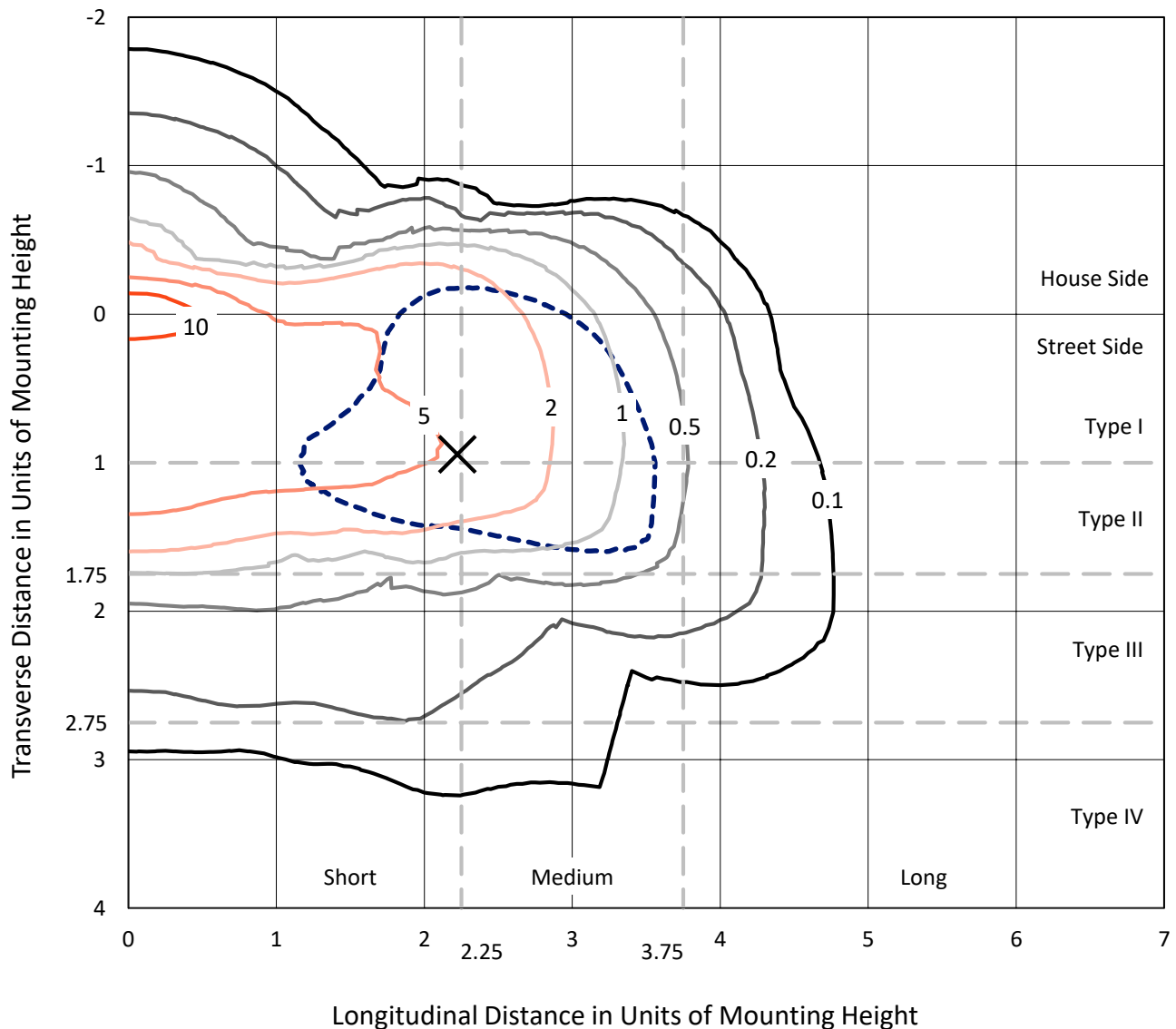


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

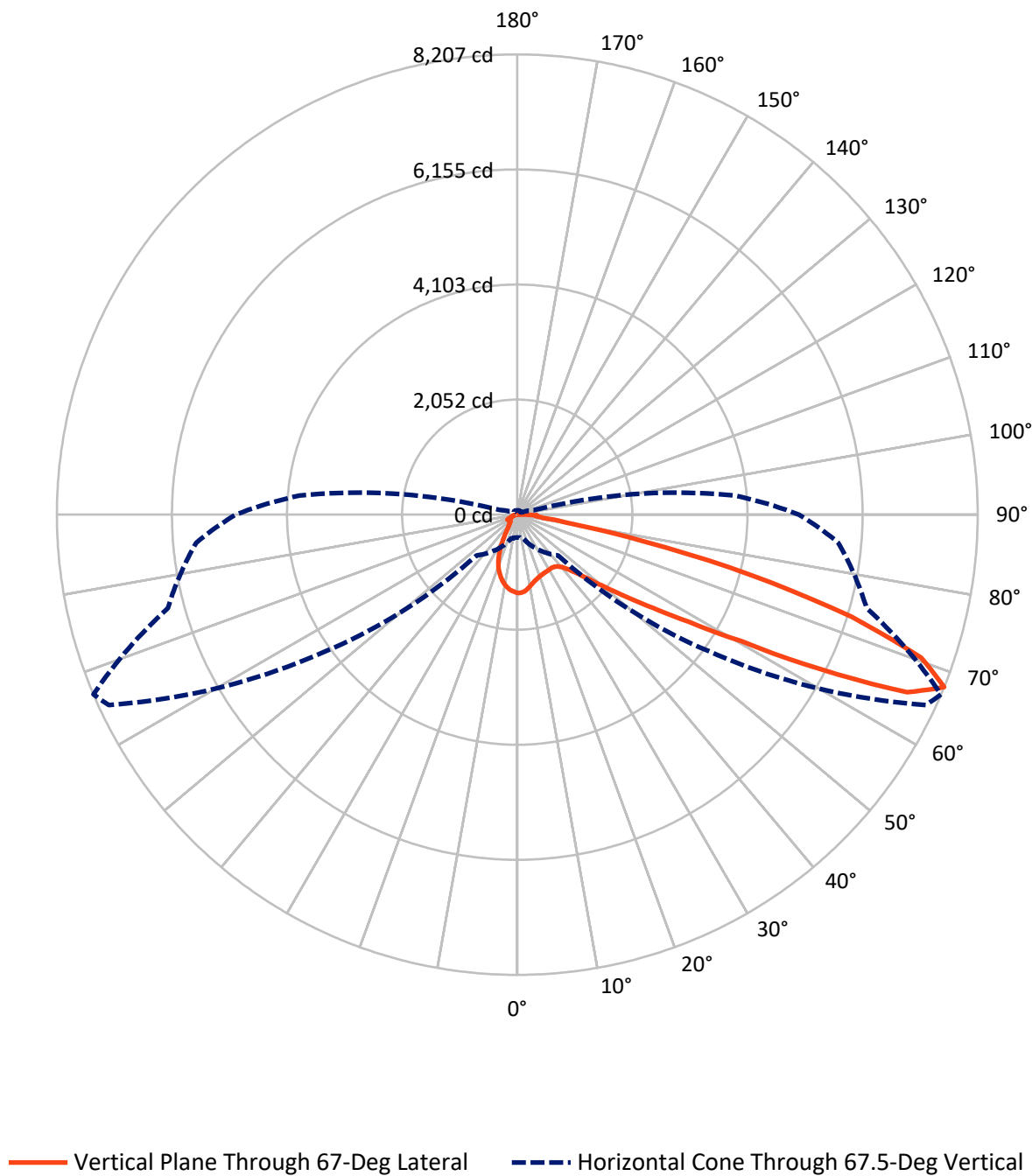


Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.1	0.0	1073.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5403.7	0.0	5403.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	6476.9	0.0	6476.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.8
10°-20°	275.8	4.3
20°-30°	373.8	5.8
30°-40°	531.4	8.2
40°-50°	889.1	13.7
50°-60°	1406.6	21.7
60°-70°	1791.8	27.7
70°-80°	938.6	14.5
80°-90°	150.5	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°	6476.9	100.0
0°-180°	6476.9	100.0

Coefficient of Utilization



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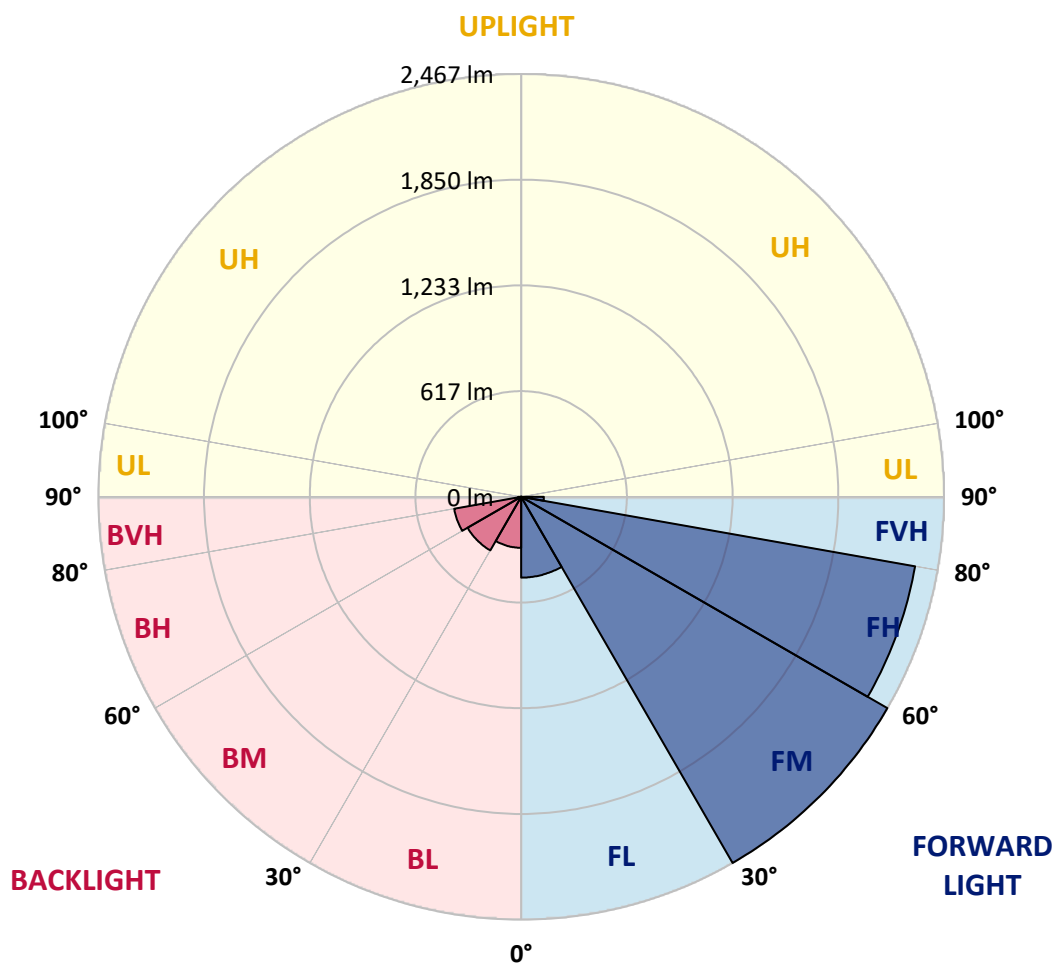
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.4	7.3			
FM	(30°-60°)	2466.5	38.1			
FH	(60°-80°)	2333.5	36.0			G2/5000
FVH	(80°-90°)	132.4	2.0			G2/225
BL	(0°-30°)	297.4	4.6	B1/500		
BM	(30°-60°)	360.6	5.6	B1/1000		
BH	(60°-80°)	396.9	6.1	B1/500		G1/500
BVH	(80°-90°)	18.2	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1
2.5°	1339.5	1341.8	1348.8	1353.2	1373.4	1382.0	1388.1	1394.1	1395.1	1398.0	1395.1
5°	1199.0	1203.8	1216.9	1231.6	1270.5	1301.3	1333.5	1367.1	1373.1	1394.8	1400.9
7.5°	1090.1	1088.9	1099.7	1117.2	1157.2	1199.6	1256.2	1322.9	1336.0	1384.9	1408.6
10°	1010.5	1009.7	1021.1	1039.3	1077.3	1117.6	1181.4	1272.8	1291.3	1369.2	1415.9
12.5°	951.7	952.0	963.6	983.8	1022.4	1063.0	1127.8	1224.2	1247.8	1351.1	1423.5
15°	912.9	915.4	924.7	946.0	983.8	1024.3	1087.9	1187.8	1214.3	1336.7	1432.2
17.5°	899.7	903.9	907.1	922.7	955.0	995.6	1057.8	1161.0	1189.1	1326.7	1439.8
20°	911.9	916.6	910.5	916.0	936.5	972.3	1034.2	1139.9	1168.6	1315.6	1440.8
22.5°	964.0	968.4	950.5	934.9	933.6	955.4	1014.7	1123.3	1153.0	1307.3	1441.1
25°	1055.7	1058.5	1028.4	992.1	956.6	949.3	1001.1	1111.8	1143.4	1299.9	1435.0
27.5°	1168.1	1170.2	1135.8	1082.1	1010.8	963.6	996.2	1105.1	1138.1	1293.5	1424.8
30°	1304.8	1315.3	1268.9	1201.3	1097.4	1006.1	1005.7	1101.6	1131.9	1282.7	1404.7
32.5°	1444.6	1449.1	1417.2	1348.5	1214.0	1080.8	1032.6	1104.2	1130.4	1269.6	1379.2
35°	1586.5	1592.2	1571.4	1516.2	1373.4	1190.4	1085.0	1119.2	1140.2	1265.1	1361.3
37.5°	1770.1	1777.7	1749.0	1685.1	1567.4	1339.0	1172.3	1156.8	1170.6	1277.9	1355.8
40°	2060.4	2057.0	1972.9	1877.7	1779.4	1529.0	1296.8	1220.8	1228.7	1319.1	1372.4
42.5°	2398.3	2389.7	2245.1	2095.6	2012.5	1759.0	1461.6	1331.6	1330.0	1400.2	1430.9
45°	2667.9	2660.9	2530.6	2346.4	2279.9	2020.9	1674.6	1496.8	1484.9	1529.0	1538.8
47.5°	2813.9	2814.2	2739.1	2588.7	2587.2	2353.7	1948.3	1735.6	1715.2	1735.9	1725.4
50°	2762.8	2769.5	2761.5	2713.6	2867.5	2789.9	2305.7	2068.8	2027.6	2047.9	2007.4
52.5°	2515.5	2524.2	2571.5	2644.9	2985.4	3317.2	2830.8	2482.7	2434.8	2427.4	2382.4
55°	2077.3	2088.0	2184.4	2384.0	2887.4	3671.4	3659.3	3010.3	2934.0	2864.7	2845.5
57.5°	1431.9	1449.5	1604.7	1901.1	2570.3	3778.5	4645.9	3762.6	3607.3	3365.1	3369.7
60°	807.1	827.5	1010.5	1279.9	1930.2	3662.3	5396.6	4901.8	4574.1	3951.3	3984.4
62.5°	513.3	535.3	674.2	889.2	1158.1	3036.2	5704.1	6485.7	6069.6	4673.8	4706.4
65°	415.5	425.1	490.6	734.0	841.0	1829.2	5470.6	7790.4	7635.2	5590.8	5438.7
67.5°	405.7	408.8	442.7	616.1	806.5	1028.1	4363.6	8034.5	8206.6	6447.1	5743.8
70°	400.9	412.0	498.9	588.1	772.4	867.2	2622.2	7365.6	7637.4	6671.0	5337.8
72.5°	194.5	193.8	251.1	531.8	870.0	899.4	1347.2	5959.6	6232.4	5779.5	4386.3
75°	156.8	143.4	137.0	194.8	836.5	928.8	858.6	4100.7	4298.2	3875.0	2696.4
77.5°	148.8	132.9	121.8	122.1	353.6	985.0	727.2	2269.7	2327.1	1750.4	738.8
80°	123.3	108.6	100.6	113.4	171.2	938.1	786.3	1027.1	942.6	429.9	246.0
82.5°	85.5	77.9	75.7	95.2	137.0	668.4	914.4	551.9	462.8	215.2	151.8
85°	54.6	46.7	51.8	69.3	106.6	308.5	942.0	430.3	342.1	136.7	85.5
87.5°	25.2	20.4	25.5	38.4	69.6	106.3	896.3	483.3	352.3	72.2	54.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1	1397.1
2.5°	1397.7	1391.6	1386.8	1377.9	1368.0	1358.4	1349.8	1339.0	1335.7	1332.9	1337.4
5°	1402.2	1396.2	1378.6	1351.1	1320.7	1292.3	1263.9	1239.5	1224.6	1216.3	1221.1
7.5°	1408.9	1400.2	1363.9	1313.4	1258.7	1209.0	1157.5	1116.3	1085.9	1071.7	1075.7
10°	1414.9	1398.3	1339.0	1263.2	1183.4	1109.3	1028.1	961.1	911.2	885.0	891.4
12.5°	1417.5	1391.0	1304.1	1200.6	1091.1	982.5	863.0	762.7	691.2	665.0	659.6
15°	1420.1	1382.6	1265.8	1129.4	979.6	826.0	658.7	538.5	479.1	466.0	463.2
17.5°	1420.7	1368.3	1222.4	1052.0	849.0	639.7	450.3	374.0	374.3	395.4	397.9
20°	1414.0	1346.9	1169.6	955.9	692.4	442.4	309.2	296.1	344.2	397.0	403.3
22.5°	1398.6	1318.4	1109.8	843.8	513.3	291.2	239.3	253.6	315.9	380.4	387.8
25°	1379.2	1284.1	1039.3	713.9	339.8	208.2	200.6	218.2	260.2	303.4	307.6
27.5°	1352.6	1243.2	960.1	565.0	220.7	171.5	176.7	188.5	205.7	224.8	226.8
30°	1318.4	1194.2	875.5	412.0	166.7	154.3	161.6	168.0	175.4	186.2	187.2
32.5°	1279.2	1147.3	788.7	284.6	147.8	145.4	151.1	154.3	160.1	166.7	167.3
35°	1246.3	1102.5	698.5	201.2	139.9	138.6	142.5	143.6	149.1	156.5	157.2
37.5°	1227.4	1066.2	605.7	162.2	134.5	132.5	134.8	134.8	142.5	153.3	154.9
40°	1228.7	1046.0	512.7	146.6	130.0	127.4	127.8	127.8	137.6	149.4	150.4
42.5°	1263.6	1051.2	430.3	140.5	126.5	123.6	122.1	122.9	131.2	139.0	139.6
45°	1345.3	1087.2	352.9	136.7	122.9	122.1	118.5	118.2	121.4	124.9	124.9
47.5°	1479.5	1158.4	300.6	134.2	120.0	119.7	115.6	111.5	111.1	112.4	112.4
50°	1697.6	1281.1	265.4	131.2	118.2	115.6	110.8	104.5	102.1	103.1	103.1
52.5°	2024.7	1499.9	252.0	127.4	114.0	110.0	104.5	98.0	96.1	96.4	96.4
55°	2453.6	1835.9	250.1	122.9	109.6	102.8	98.4	93.6	91.3	92.0	92.0
57.5°	2977.8	2300.7	284.3	116.0	103.5	95.8	93.3	90.0	88.5	89.5	89.1
60°	3615.0	2908.8	421.6	108.6	97.5	89.5	89.5	86.9	85.5	86.6	86.2
62.5°	4348.9	3607.3	592.8	103.1	91.0	84.3	85.5	84.3	83.0	83.7	83.4
65°	4999.8	4062.5	555.1	99.0	84.6	79.5	81.7	81.2	80.2	80.9	80.6
67.5°	5018.8	3893.8	311.7	94.5	78.5	74.8	77.9	77.6	77.0	77.6	77.2
70°	4479.0	3287.9	175.7	86.2	72.2	69.0	73.4	73.1	72.5	73.8	73.4
72.5°	3588.4	2385.9	128.4	76.1	65.8	63.0	68.1	67.7	67.7	69.6	68.8
75°	2064.9	1227.7	102.4	65.1	59.1	56.9	61.3	61.6	62.3	64.8	63.0
77.5°	588.7	382.6	83.7	55.2	50.8	49.8	54.3	54.9	55.2	58.1	55.6
80°	218.7	176.4	69.0	46.3	41.5	41.8	46.0	47.0	47.3	50.1	47.0
82.5°	139.6	116.3	55.9	35.7	32.6	32.2	37.3	38.7	38.7	39.0	37.0
85°	81.4	69.6	42.2	25.9	23.0	22.1	27.8	30.0	29.1	28.4	27.1
87.5°	54.6	47.8	25.9	14.4	12.4	11.8	16.3	17.9	17.3	16.3	15.3
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)