

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: P269108

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269108
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-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11610 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

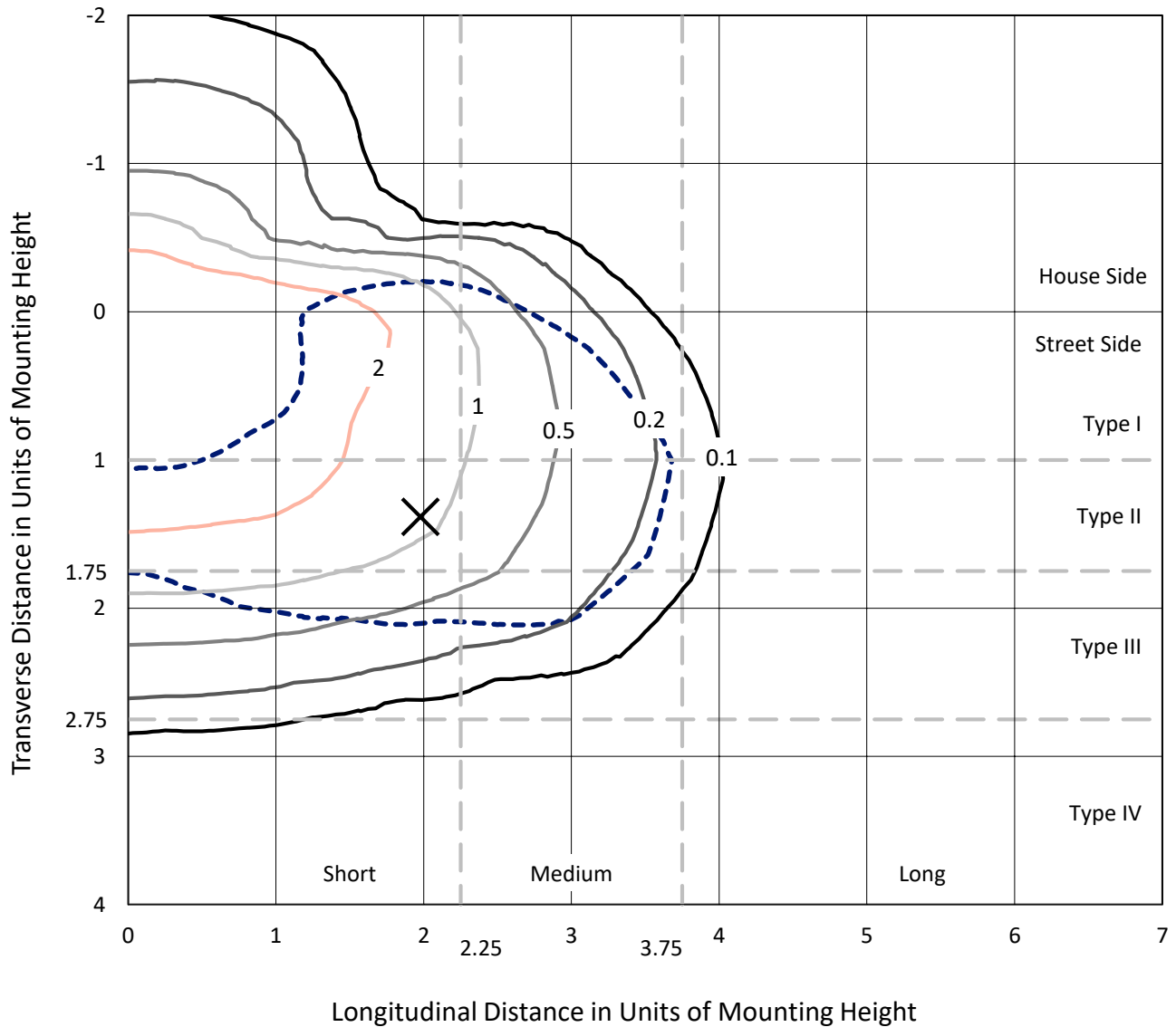
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

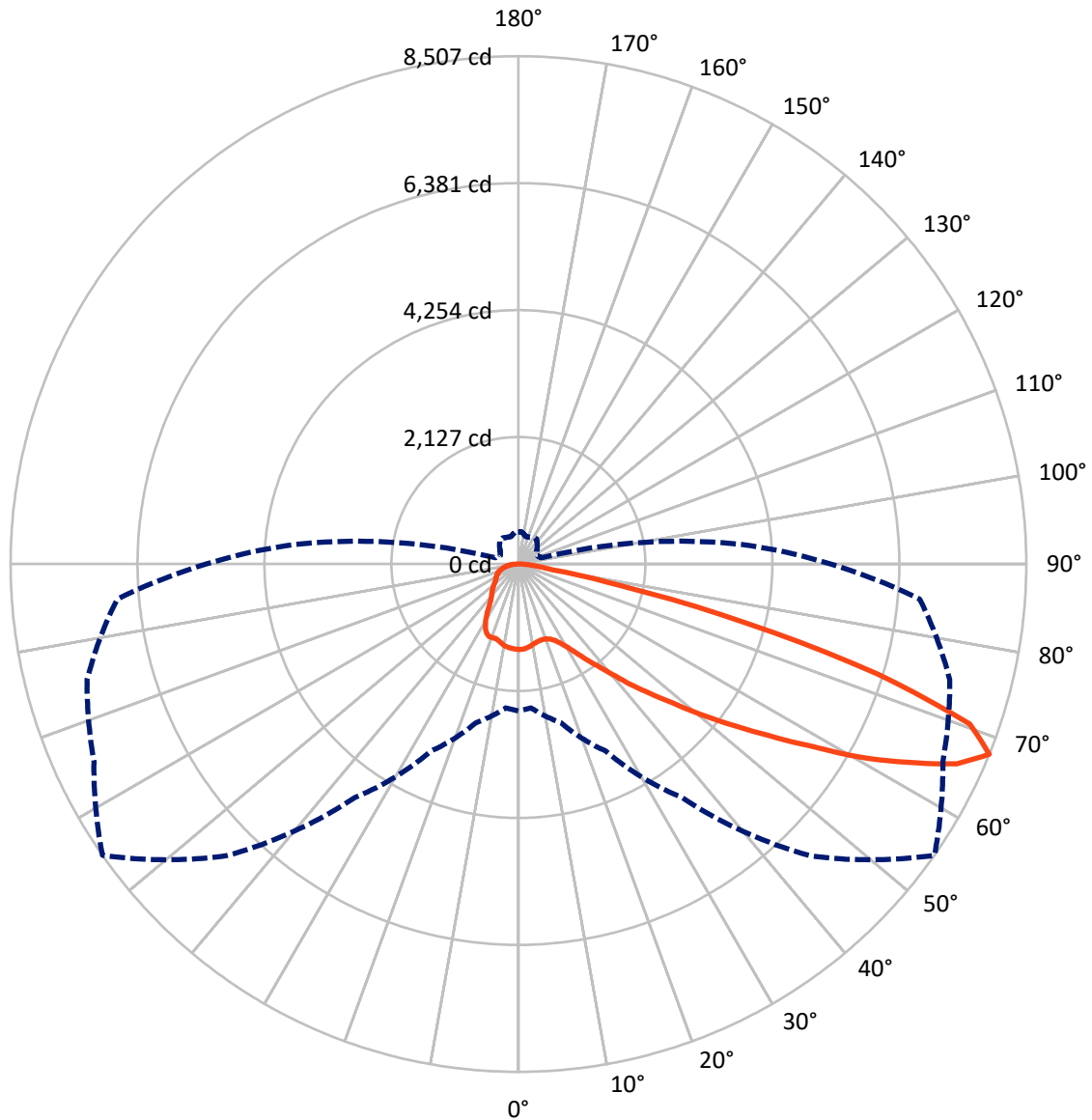
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2508.0	0.0	2508.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9102.0	0.0	9102.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	11610.0	0.0	11610.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.2
10°-20°	378.4	3.3
20°-30°	634.0	5.5
30°-40°	1042.5	9.0
40°-50°	1754.8	15.1
50°-60°	2762.0	23.8
60°-70°	3296.2	28.4
70°-80°	1415.4	12.2
80°-90°	193.0	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°	11610.0	100.0
0°-180°	11610.0	100.0



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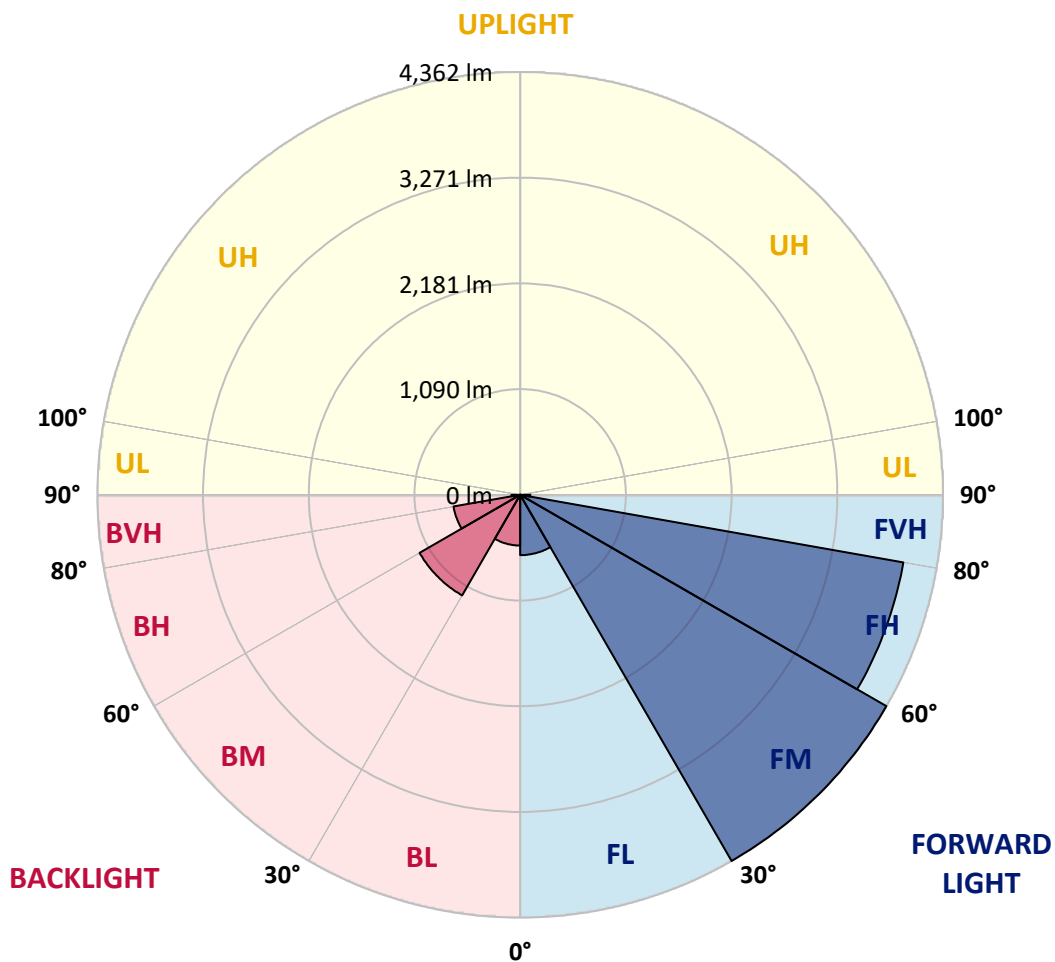
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.3	5.4			
FM	(30°-60°)	4361.6	37.6			
FH	(60°-80°)	4013.6	34.6			G2/5000
FVH	(80°-90°)	104.5	0.9			G2/225
BL	(0°-30°)	523.7	4.5	B2/1000		
BM	(30°-60°)	1197.8	10.3	B2/2500		
BH	(60°-80°)	698.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	88.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5
2.5°	1419.3	1419.9	1420.9	1425.5	1429.5	1428.2	1428.8	1426.6	1426.0	1422.6	1426.0
5°	1401.4	1403.1	1403.6	1410.9	1415.4	1416.4	1414.8	1412.0	1408.6	1405.3	1406.9
7.5°	1360.5	1365.0	1365.5	1375.6	1382.9	1392.5	1392.9	1393.5	1391.8	1389.6	1392.9
10°	1334.6	1335.7	1335.2	1342.4	1348.0	1358.7	1365.0	1375.6	1380.1	1381.1	1383.4
12.5°	1332.9	1331.7	1330.1	1330.1	1328.5	1332.9	1344.1	1359.2	1369.9	1373.2	1376.2
15°	1351.0	1350.3	1344.8	1336.3	1325.7	1322.2	1331.7	1348.6	1362.6	1369.9	1372.8
17.5°	1391.2	1387.9	1378.9	1359.9	1336.9	1327.9	1329.0	1343.1	1359.2	1368.8	1371.6
20°	1465.2	1465.2	1446.2	1410.2	1369.3	1348.0	1337.9	1346.4	1362.1	1374.9	1378.9
22.5°	1593.1	1594.2	1562.3	1503.5	1434.5	1389.0	1363.7	1362.1	1380.7	1395.2	1399.6
25°	1774.2	1769.8	1724.9	1640.8	1535.9	1460.9	1417.0	1406.9	1422.6	1438.9	1444.6
27.5°	1985.2	1968.8	1915.5	1814.0	1678.4	1568.5	1501.2	1484.9	1500.0	1518.6	1524.2
30°	2193.8	2177.0	2113.5	2002.5	1851.6	1712.6	1616.1	1589.8	1611.1	1637.4	1640.8
32.5°	2402.2	2402.2	2331.7	2202.1	2037.8	1884.7	1769.2	1737.9	1773.2	1805.1	1812.4
35°	2651.8	2653.0	2584.6	2428.7	2252.1	2089.9	1962.6	1939.7	1993.0	2015.3	2032.8
37.5°	2958.6	2964.8	2876.7	2688.3	2494.9	2324.4	2173.0	2141.6	2194.7	2256.0	2312.1
40°	3290.0	3297.9	3200.8	2968.7	2775.3	2596.9	2433.1	2376.6	2465.0	2581.8	2654.1
42.5°	3606.2	3646.7	3552.9	3314.1	3106.1	2921.6	2755.6	2673.1	2784.1	2960.3	3023.1
45°	4063.4	4092.5	3929.2	3712.9	3517.1	3310.8	3091.0	3004.0	3159.3	3381.4	3394.3
47.5°	4367.7	4345.9	4262.9	4128.3	4004.5	3811.5	3480.7	3385.4	3591.8	3853.0	3780.6
50°	4529.9	4536.6	4525.4	4533.2	4537.7	4416.5	3958.4	3827.8	4074.0	4389.7	4223.1
52.5°	4681.2	4636.4	4673.4	4857.3	5079.3	5034.6	4478.3	4342.0	4591.0	4985.2	4690.8
55°	4678.0	4609.6	4730.0	5054.8	5536.4	5588.0	5061.9	4905.0	5137.8	5623.8	5186.5
57.5°	4512.5	4515.8	4701.5	5126.4	5855.0	6108.5	5739.5	5503.9	5717.5	6271.1	5639.0
60°	4284.8	4315.6	4583.2	5114.7	6110.1	6535.2	6570.6	6149.3	6285.6	6859.3	6013.7
62.5°	3917.5	3950.0	4319.1	4992.5	6071.5	6946.2	7321.9	6881.7	6879.5	7215.9	6123.6
65°	3338.2	3328.7	3716.2	4535.5	5746.6	7250.1	8068.2	7514.9	7326.9	7221.6	5902.7
67.5°	2461.7	2419.1	2751.7	3454.3	4776.6	6909.8	8507.4	7844.5	7479.5	6746.6	5227.4
70°	1277.4	1234.8	1503.9	2017.1	3141.5	5392.9	8021.1	7674.1	7142.5	5655.3	4095.3
72.5°	546.2	539.0	648.2	884.9	1519.7	3110.7	6289.6	6642.2	6128.5	4213.6	2815.6
75°	367.2	365.0	406.0	482.3	683.6	1262.3	3936.1	4714.9	4483.9	2612.6	1583.6
77.5°	288.3	285.4	309.6	346.6	443.0	498.0	1746.8	2531.3	2342.9	1137.3	693.1
80°	225.5	223.1	238.3	258.5	318.4	314.0	574.7	1007.1	779.5	435.7	337.0
82.5°	177.8	177.8	190.1	190.7	226.1	214.2	300.0	443.6	389.1	254.0	206.4
85°	162.7	162.7	175.4	142.4	147.5	135.1	186.2	263.1	246.8	104.4	89.7
87.5°	81.8	79.6	147.5	126.2	80.2	71.8	90.9	127.3	136.8	57.8	44.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5	1431.5
2.5°	1424.9	1424.4	1425.5	1426.0	1430.6	1436.7	1439.4	1443.3	1445.6	1444.6
5°	1408.1	1409.3	1413.8	1417.0	1424.9	1435.0	1440.6	1445.2	1449.1	1447.3
7.5°	1394.1	1396.9	1403.6	1406.3	1410.9	1413.8	1413.2	1414.8	1418.2	1414.2
10°	1386.3	1389.6	1394.6	1390.7	1380.1	1365.0	1351.0	1343.5	1345.8	1343.1
12.5°	1378.4	1382.9	1378.9	1360.5	1330.7	1311.0	1300.4	1301.6	1306.6	1307.8
15°	1373.9	1375.6	1358.7	1323.9	1293.6	1290.9	1296.6	1295.4	1296.0	1296.0
17.5°	1373.9	1369.3	1337.9	1303.3	1290.3	1285.3	1267.9	1245.9	1236.4	1233.2
20°	1381.1	1369.3	1331.3	1308.2	1280.3	1237.1	1191.1	1150.6	1132.8	1127.7
22.5°	1403.1	1382.9	1350.3	1310.4	1230.9	1158.5	1085.6	1037.5	1004.9	999.3
25°	1447.3	1424.9	1387.9	1280.9	1152.3	1049.2	966.1	912.4	879.8	875.4
27.5°	1524.8	1510.1	1408.1	1215.1	1048.1	937.7	860.8	819.3	795.2	793.6
30°	1641.4	1634.0	1398.0	1118.2	919.7	829.3	792.3	768.2	750.4	749.7
32.5°	1827.5	1768.7	1365.0	999.9	802.5	752.5	737.4	722.9	708.9	708.9
35°	2067.0	1877.5	1302.2	873.2	731.2	709.9	690.8	667.9	649.4	648.2
37.5°	2348.4	1944.7	1189.4	771.0	697.7	681.4	653.2	619.1	586.6	580.9
40°	2632.8	1965.0	1030.6	708.3	676.2	652.7	618.6	578.1	546.8	545.0
42.5°	2893.5	1926.2	862.5	665.0	655.0	623.6	587.8	551.7	527.1	526.5
45°	3112.3	1825.8	721.2	624.1	632.5	597.3	565.3	536.1	517.1	513.1
47.5°	3318.1	1684.1	621.8	580.9	610.0	582.6	555.7	528.3	509.8	507.0
50°	3556.8	1530.9	552.4	539.0	590.5	577.6	563.5	535.0	504.0	500.7
52.5°	3846.4	1398.5	498.0	502.0	575.4	584.3	583.8	554.1	500.1	495.8
55°	4169.4	1251.6	457.0	471.6	569.2	596.7	588.7	572.0	503.6	496.9
57.5°	4487.3	1080.0	428.4	448.7	560.3	595.5	564.7	540.6	511.5	502.0
60°	4725.5	849.5	406.6	428.4	540.6	577.0	538.4	506.4	509.8	502.4
62.5°	4741.3	656.7	380.3	411.1	510.9	558.6	520.9	491.3	517.1	510.2
65°	4462.6	496.3	355.0	390.4	478.8	546.8	504.0	482.7	532.2	524.9
67.5°	3757.2	399.2	333.7	368.9	446.9	522.0	488.9	474.9	545.6	532.8
70°	2712.4	340.4	312.9	343.2	418.3	494.1	475.6	460.9	509.2	488.9
72.5°	1669.9	295.0	289.3	308.9	396.4	464.9	455.4	434.6	458.8	442.4
75°	833.8	255.7	263.1	275.3	365.6	431.7	421.8	401.0	404.2	401.0
77.5°	399.2	218.6	232.1	241.6	325.8	394.3	383.5	362.2	358.3	359.0
80°	253.0	182.8	195.7	202.5	291.1	350.5	339.7	318.4	363.4	337.0
82.5°	158.1	148.6	152.0	164.3	253.4	305.1	291.1	271.9	327.5	259.2
85°	87.5	103.8	108.2	118.8	195.1	255.2	241.1	217.0	194.7	191.2
87.5°	52.1	61.7	63.4	71.2	131.2	184.5	163.2	154.8	128.4	127.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)