

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: P192231

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192231
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-03-LED-E1-T3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11976 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

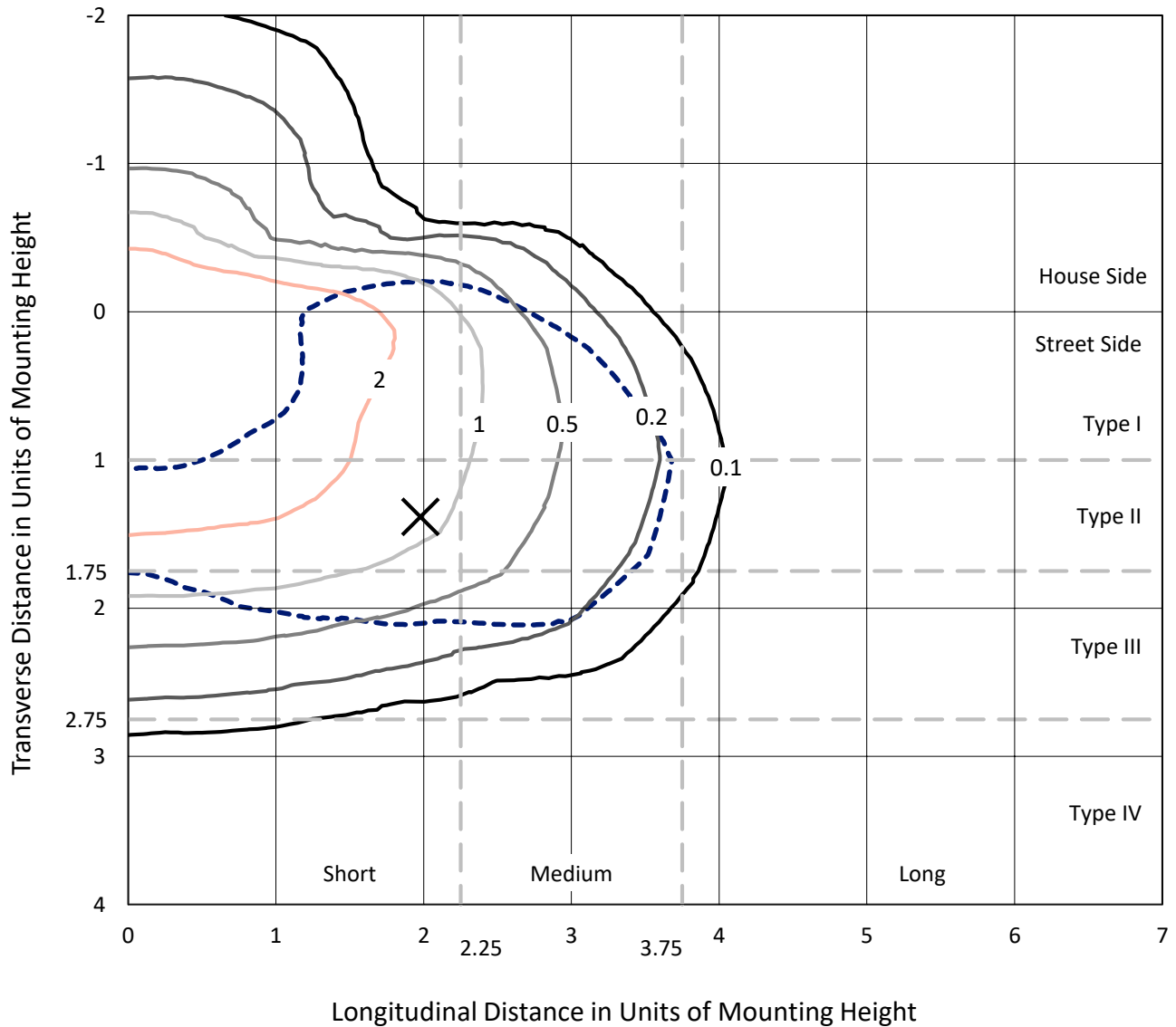


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Iso-Footcandle Lines of Horizontal Illumination

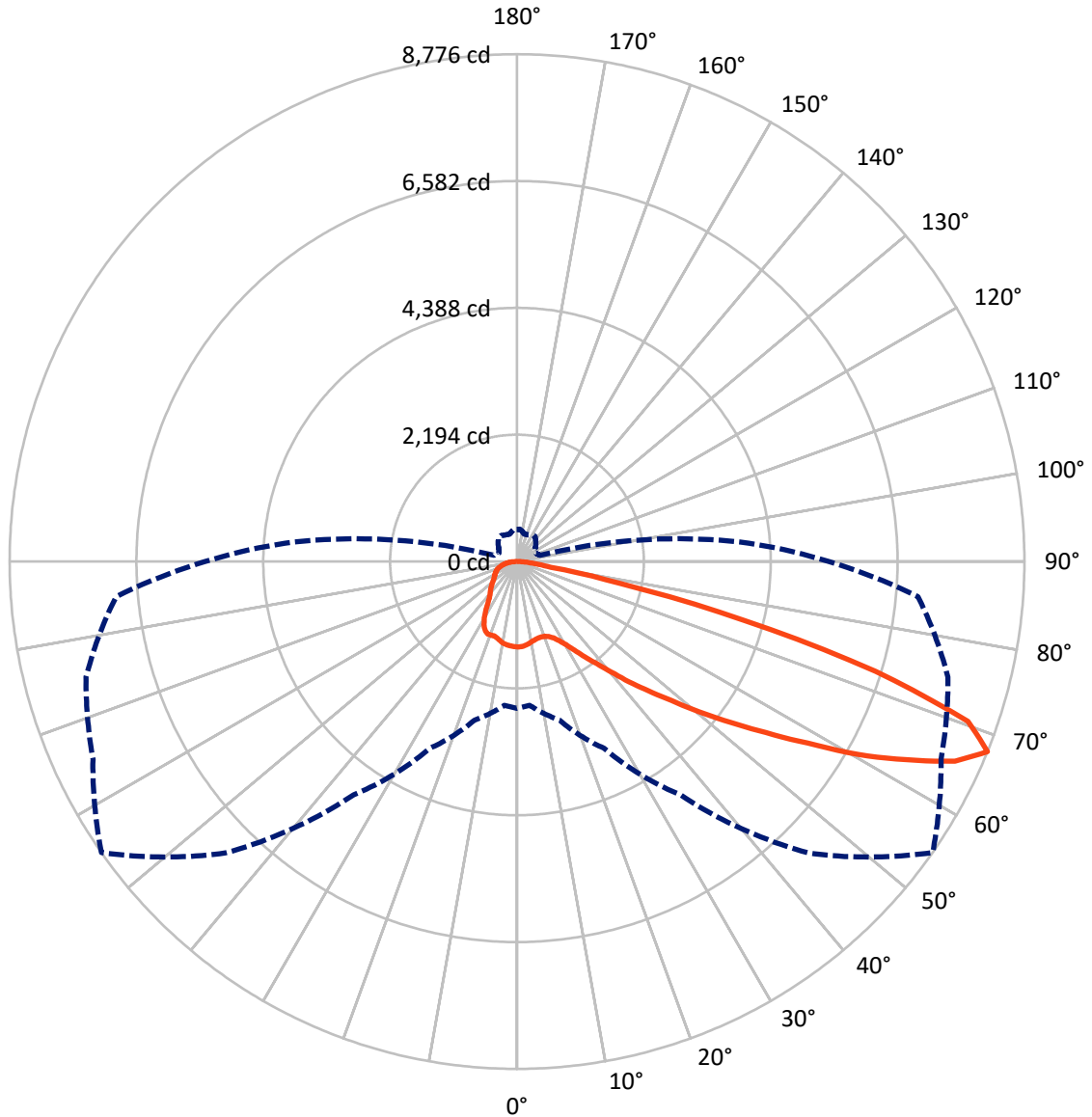
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	2587.1	0.0	2587.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9388.9	0.0	9388.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	11976.0	0.0	11976.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.2
10°-20°	390.4	3.3
20°-30°	653.9	5.5
30°-40°	1075.4	9.0
40°-50°	1810.2	15.1
50°-60°	2849.1	23.8
60°-70°	3400.1	28.4
70°-80°	1460.1	12.2
80°-90°	199.1	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°	11976.0	100.0
0°-180°	11976.0	100.0



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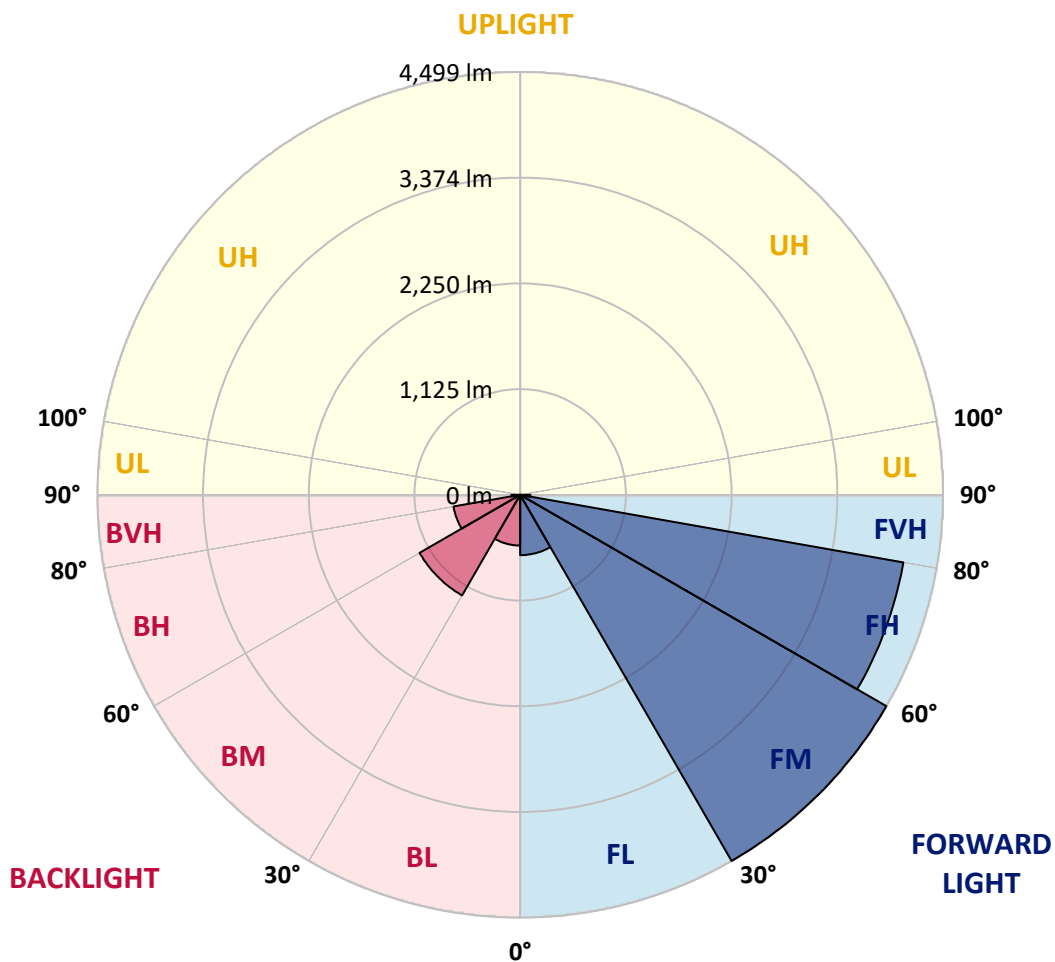
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.9	5.4			
FM (30°-60°)	4499.1	37.6			
FH (60°-80°)	4140.2	34.6			G2/5000
FVH (80°-90°)	107.8	0.9			G2/225
BL (0°-30°)	540.2	4.5	B2/1000		
BM (30°-60°)	1235.6	10.3	B2/2500		
BH (60°-80°)	720.0	6.0	B2/1000		G2/1000
BVH (80°-90°)	91.3	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°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1464.0	1464.6	1465.8	1470.4	1474.5	1473.3	1473.9	1471.6	1471.0	1467.5	1471.0
5°	1445.5	1447.3	1447.8	1455.4	1460.0	1461.2	1459.4	1456.5	1453.1	1449.6	1451.3
7.5°	1403.3	1407.9	1408.5	1418.9	1426.4	1436.3	1436.9	1437.4	1435.7	1433.4	1436.9
10°	1376.7	1377.9	1377.3	1384.8	1390.6	1401.6	1407.9	1418.9	1423.6	1424.7	1427.0
12.5°	1375.0	1373.8	1372.1	1372.1	1370.3	1375.0	1386.5	1402.2	1413.1	1416.6	1419.5
15°	1393.5	1392.9	1387.1	1378.4	1367.4	1364.0	1373.8	1391.2	1405.6	1413.1	1416.0
17.5°	1435.1	1431.7	1422.4	1402.7	1379.0	1369.8	1370.9	1385.4	1402.2	1412.0	1414.9
20°	1511.5	1511.5	1491.8	1454.8	1412.6	1390.6	1380.2	1388.8	1405.0	1418.3	1422.4
22.5°	1643.4	1644.5	1611.5	1550.8	1479.7	1432.8	1406.8	1405.0	1424.1	1439.2	1443.8
25°	1830.2	1825.6	1779.3	1692.5	1584.4	1506.9	1461.7	1451.3	1467.5	1484.3	1490.1
27.5°	2047.7	2030.9	1976.0	1871.3	1731.3	1617.9	1548.5	1531.7	1547.3	1566.4	1572.2
30°	2262.9	2245.5	2180.2	2065.6	1910.0	1766.6	1667.1	1639.9	1661.9	1689.1	1692.5
32.5°	2478.1	2478.1	2405.2	2271.6	2102.1	1944.2	1825.0	1792.6	1829.0	1862.0	1869.5
35°	2735.5	2736.6	2666.1	2505.2	2323.0	2155.9	2024.6	2000.8	2055.8	2078.9	2096.9
37.5°	3051.9	3058.2	2967.4	2773.1	2573.5	2397.7	2241.5	2209.1	2264.0	2327.1	2384.9
40°	3393.7	3401.8	3301.8	3062.3	2862.7	2678.8	2509.9	2451.5	2542.8	2663.2	2737.8
42.5°	3720.0	3761.6	3665.0	3418.6	3204.0	3013.7	2842.5	2757.5	2872.0	3053.6	3118.4
45°	4191.4	4221.5	4053.2	3829.9	3628.0	3415.1	3188.4	3098.7	3259.0	3488.0	3501.3
47.5°	4505.5	4483.0	4397.3	4258.5	4130.7	3931.7	3590.4	3492.1	3704.9	3974.5	3899.9
50°	4672.7	4679.6	4668.1	4676.2	4680.8	4555.8	4083.2	3948.5	4202.4	4528.1	4356.3
52.5°	4828.9	4782.6	4820.8	5010.5	5239.6	5193.3	4619.5	4478.9	4735.7	5142.4	4838.7
55°	4825.4	4754.8	4879.2	5214.1	5711.0	5764.2	5221.6	5059.7	5299.7	5801.2	5350.0
57.5°	4654.8	4658.2	4849.7	5288.1	6039.6	6301.0	5920.4	5677.4	5897.8	6468.8	5816.8
60°	4419.9	4451.7	4727.6	5276.0	6302.7	6741.2	6777.6	6343.2	6483.8	7075.5	6203.3
62.5°	4041.0	4074.6	4455.2	5149.9	6262.8	7165.2	7552.8	7098.7	7096.4	7443.4	6316.6
65°	3443.5	3433.7	3833.4	4678.5	5927.9	7478.7	8322.7	7751.7	7558.0	7449.2	6088.7
67.5°	2539.4	2495.4	2838.4	3563.2	4927.2	7127.6	8775.6	8091.9	7715.3	6959.3	5392.3
70°	1317.7	1273.7	1551.4	2080.7	3240.5	5562.9	8274.1	7916.0	7367.7	5833.6	4224.4
72.5°	563.4	555.9	668.7	912.8	1567.6	3208.6	6487.8	6851.7	6321.8	4346.4	2904.4
75°	378.9	376.6	418.8	497.5	705.1	1302.1	4060.1	4863.6	4625.3	2695.0	1633.5
77.5°	297.3	294.4	319.3	357.5	457.0	513.7	1801.9	2611.1	2416.7	1173.1	715.0
80°	232.5	230.2	245.8	266.7	328.6	323.9	592.9	1038.9	804.0	449.5	347.6
82.5°	183.4	183.4	196.1	196.7	233.1	221.0	309.5	457.6	401.4	262.0	212.9
85°	167.7	167.7	181.1	146.9	152.1	139.4	192.0	271.3	254.5	107.6	92.6
87.5°	84.5	82.1	152.1	130.2	82.7	74.0	93.7	131.3	141.1	59.6	46.3
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°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1469.8	1469.3	1470.4	1471.0	1475.6	1482.0	1484.9	1488.9	1491.2	1490.1
5°	1452.5	1453.6	1458.3	1461.7	1469.8	1480.2	1486.0	1490.7	1494.7	1493.0
7.5°	1438.0	1440.9	1447.8	1450.7	1455.4	1458.3	1457.7	1459.4	1462.9	1458.8
10°	1429.9	1433.4	1438.6	1434.5	1423.6	1407.9	1393.5	1386.0	1388.3	1385.4
12.5°	1421.8	1426.4	1422.4	1403.3	1372.7	1352.4	1341.4	1342.6	1347.8	1348.9
15°	1417.2	1418.9	1401.6	1365.7	1334.5	1331.6	1337.4	1336.2	1336.8	1336.8
17.5°	1417.2	1412.6	1380.2	1344.3	1331.0	1325.8	1307.9	1285.3	1275.5	1272.0
20°	1424.7	1412.6	1373.2	1349.5	1320.6	1276.1	1228.6	1187.0	1168.5	1163.3
22.5°	1447.3	1426.4	1392.9	1351.8	1269.7	1195.1	1119.9	1070.1	1036.6	1030.8
25°	1493.0	1469.8	1431.7	1321.2	1188.7	1082.3	996.7	941.1	907.6	903.0
27.5°	1572.8	1557.8	1452.5	1253.5	1081.1	967.2	887.9	845.1	820.2	818.5
30°	1693.1	1685.6	1442.1	1153.4	948.7	855.5	817.3	792.5	774.0	773.4
32.5°	1885.2	1824.4	1407.9	1031.4	827.8	776.3	760.7	745.6	731.2	731.2
35°	2132.2	1936.6	1343.2	900.6	754.3	732.3	712.6	688.9	669.8	668.7
37.5°	2422.5	2006.0	1226.9	795.4	719.6	702.8	673.9	638.6	605.1	599.3
40°	2715.8	2026.9	1063.2	730.6	697.6	673.3	638.0	596.4	564.0	562.2
42.5°	2984.8	1987.0	889.6	686.0	675.6	643.2	606.2	569.2	543.7	543.2
45°	3210.4	1883.4	743.9	643.8	652.5	616.0	583.1	553.0	533.3	529.3
47.5°	3422.7	1737.1	641.5	599.3	629.3	601.0	573.2	544.9	525.8	522.9
50°	3669.1	1579.2	569.8	555.9	609.1	595.8	581.3	551.8	520.0	516.6
52.5°	3967.6	1442.6	513.7	517.7	593.5	602.7	602.2	571.5	516.0	511.3
55°	4300.7	1291.1	471.4	486.5	587.1	615.5	607.4	590.0	519.4	512.5
57.5°	4628.7	1114.1	441.9	462.8	577.9	614.3	582.5	557.6	527.5	517.7
60°	4874.6	876.3	419.4	441.9	557.6	595.2	555.3	522.3	525.8	518.3
62.5°	4890.8	677.4	392.2	424.0	527.0	576.1	537.4	506.7	533.3	526.4
65°	4603.3	511.9	366.2	402.6	494.0	564.0	520.0	498.0	548.9	541.4
67.5°	3875.6	411.9	344.2	380.6	461.0	538.5	504.4	489.9	562.8	549.5
70°	2797.9	351.1	322.8	354.0	431.5	509.6	490.5	475.5	525.2	504.4
72.5°	1722.6	304.3	298.5	318.7	409.0	479.5	469.7	448.3	473.2	456.4
75°	860.1	263.8	271.3	284.0	377.1	445.4	435.0	413.6	417.1	413.6
77.5°	411.9	225.6	239.5	249.3	336.1	406.6	395.7	373.7	369.6	370.2
80°	260.9	188.6	201.9	208.8	300.2	361.5	350.5	328.6	374.8	347.6
82.5°	163.1	153.3	156.8	169.5	261.5	314.7	300.2	280.5	337.8	267.2
85°	90.2	107.0	111.6	122.6	201.3	263.2	248.7	223.9	200.7	197.2
87.5°	53.8	63.6	65.4	73.5	135.4	190.3	168.3	159.7	132.5	131.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)