

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: P191450

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191450
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12460.6 lumens
Efficiency: N/A
Efficacy: 110.3 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): 113
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

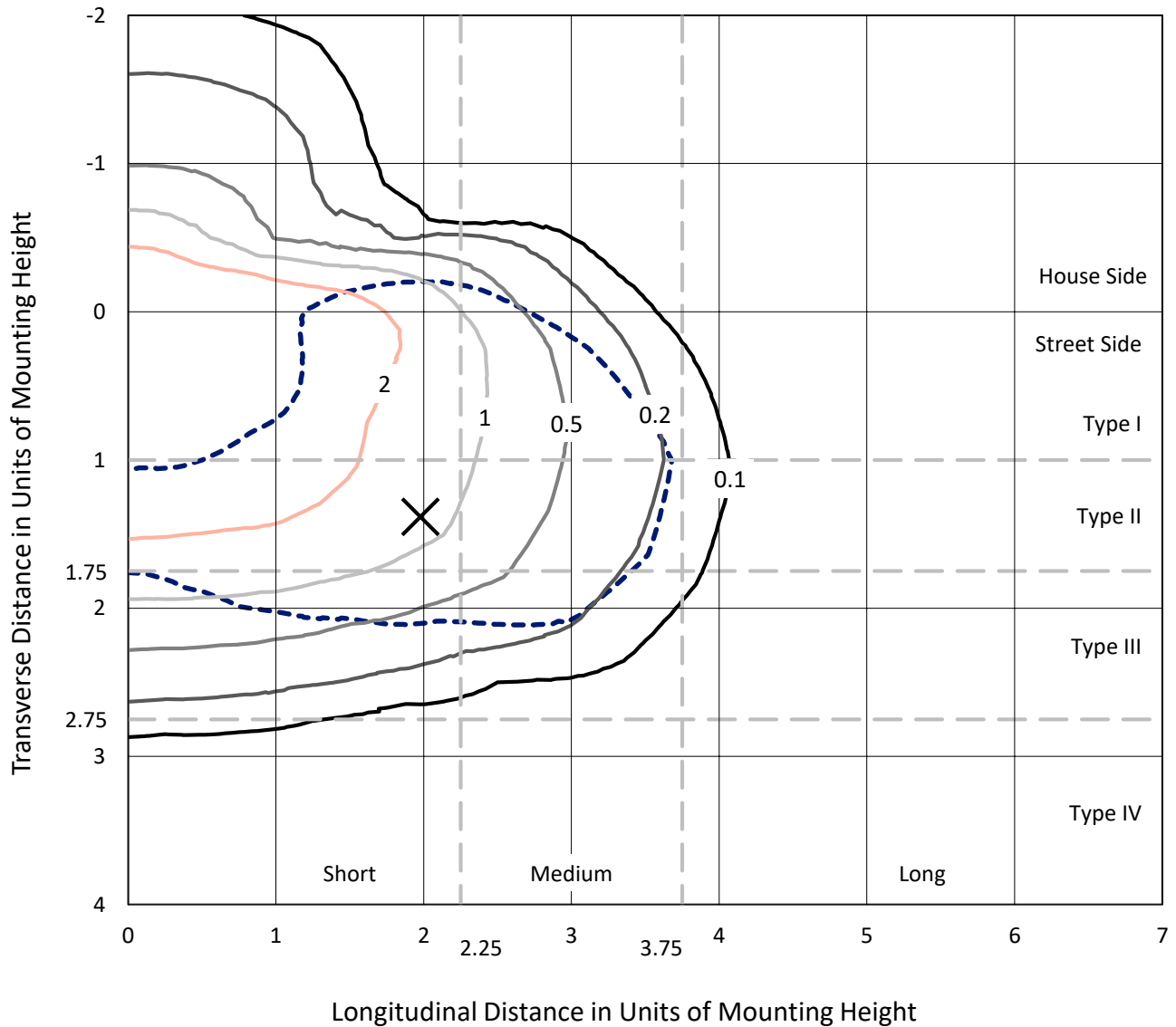


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

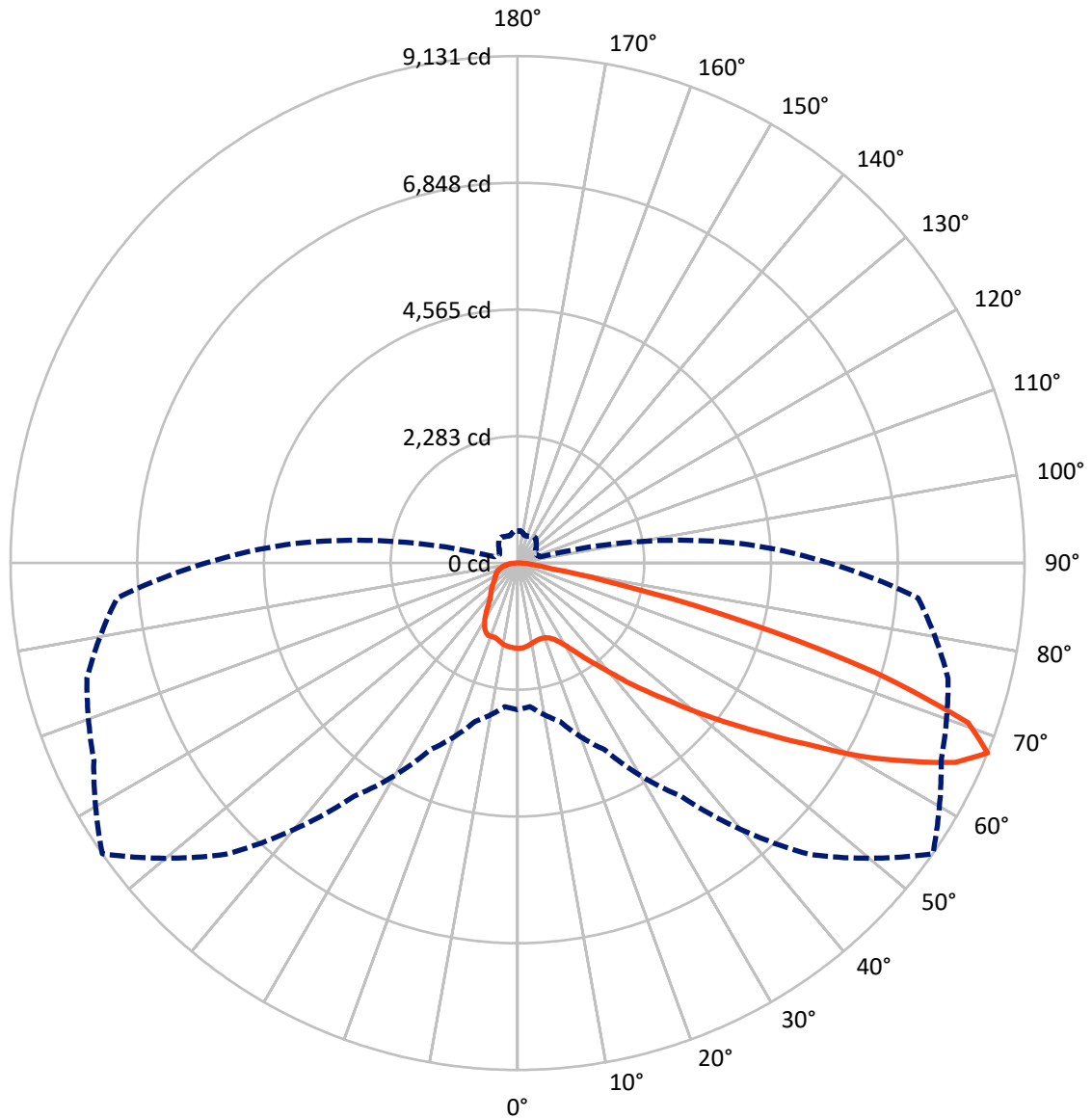


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

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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	2691.8	0.0	2691.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9768.8	0.0	9768.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	12460.6	0.0	12460.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.2
10°-20°	406.2	3.3
20°-30°	680.4	5.5
30°-40°	1118.9	9.0
40°-50°	1883.4	15.1
50°-60°	2964.4	23.8
60°-70°	3537.6	28.4
70°-80°	1519.1	12.2
80°-90°	207.1	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°	12460.6	100.0
0°-180°	12460.6	100.0

Coefficient of Utilization



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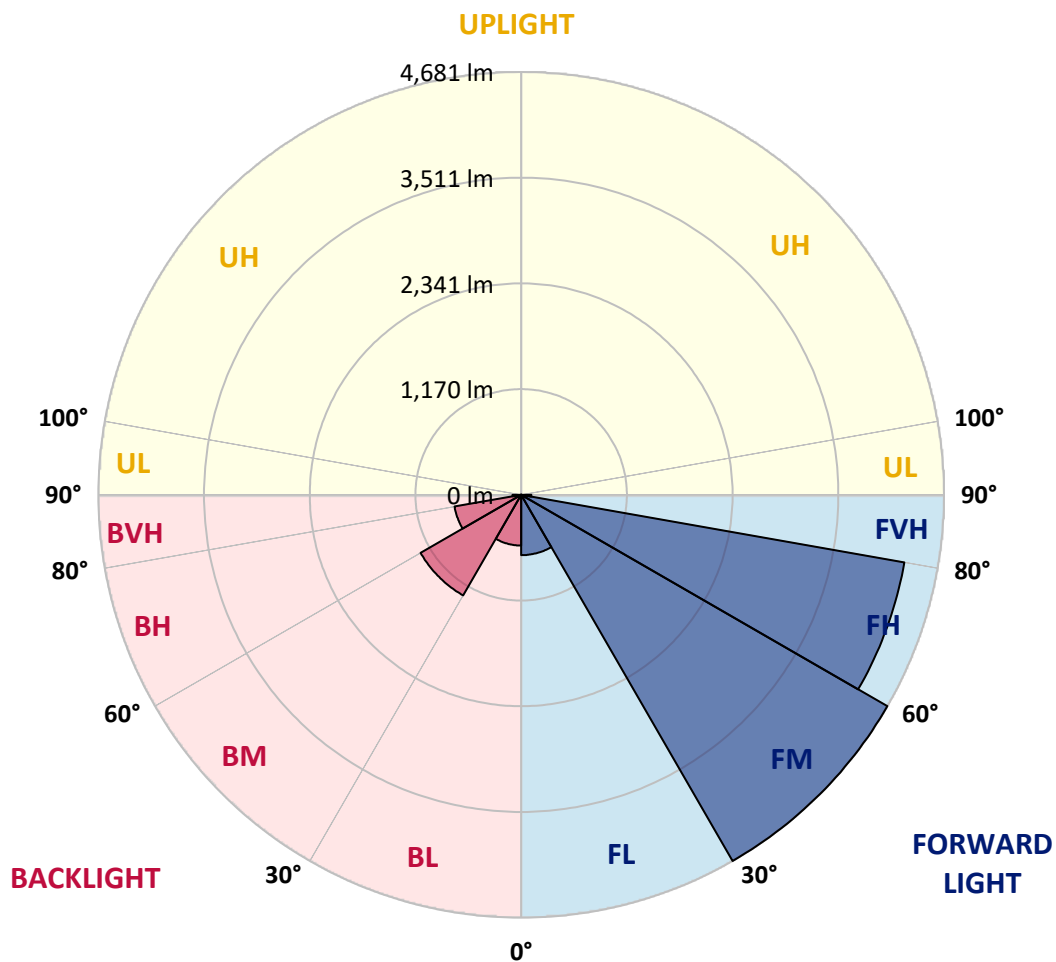
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.9	5.4			
FM (30°-60°)	4681.1	37.6			
FH (60°-80°)	4307.7	34.6			G2/5000
FVH (80°-90°)	112.1	0.9			G2/225
BL (0°-30°)	562.1	4.5	B2/1000		
BM (30°-60°)	1285.6	10.3	B2/2500		
BH (60°-80°)	749.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	95.0	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°	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6
2.5°	1523.3	1523.9	1525.1	1529.9	1534.1	1532.9	1533.5	1531.2	1530.5	1526.9	1530.5
5°	1504.0	1505.8	1506.4	1514.3	1519.1	1520.3	1518.5	1515.5	1511.8	1508.2	1510.1
7.5°	1460.1	1464.9	1465.5	1476.3	1484.2	1494.4	1495.0	1495.6	1493.8	1491.4	1495.0
10°	1432.4	1433.6	1433.1	1440.8	1446.9	1458.3	1464.9	1476.3	1481.1	1482.4	1484.8
12.5°	1430.6	1429.4	1427.6	1427.6	1425.8	1430.6	1442.7	1458.9	1470.3	1474.0	1476.9
15°	1449.8	1449.2	1443.3	1434.2	1422.8	1419.1	1429.4	1447.5	1462.5	1470.3	1473.4
17.5°	1493.2	1489.6	1479.9	1459.4	1434.8	1425.2	1426.4	1441.4	1458.9	1469.2	1472.1
20°	1572.7	1572.7	1552.1	1513.7	1469.7	1446.9	1436.0	1445.0	1461.9	1475.7	1479.9
22.5°	1709.9	1711.1	1676.7	1613.6	1539.5	1490.7	1463.7	1461.9	1481.7	1497.4	1502.2
25°	1904.2	1899.4	1851.3	1761.0	1648.5	1567.8	1520.9	1510.1	1526.9	1544.3	1550.4
27.5°	2130.5	2113.1	2055.9	1947.0	1801.3	1683.4	1611.1	1593.7	1609.9	1629.8	1635.8
30°	2354.4	2336.4	2268.4	2149.2	1987.3	1838.0	1734.5	1706.3	1729.1	1757.4	1761.0
32.5°	2578.3	2578.3	2502.4	2363.4	2187.2	2022.8	1898.8	1865.1	1903.1	1937.4	1945.1
35°	2846.2	2847.4	2773.9	2606.6	2417.0	2243.1	2106.5	2081.8	2139.0	2163.0	2181.7
37.5°	3175.3	3182.0	3087.5	2885.2	2677.7	2494.7	2332.1	2298.5	2355.7	2421.2	2481.5
40°	3531.0	3539.5	3435.4	3186.2	2978.5	2787.1	2611.4	2550.6	2645.8	2771.0	2848.5
42.5°	3870.5	3913.8	3813.4	3556.9	3333.7	3135.7	2957.5	2869.1	2988.1	3177.2	3244.6
45°	4361.0	4392.3	4217.1	3984.8	3774.8	3553.3	3317.4	3224.1	3390.8	3629.1	3643.0
47.5°	4687.8	4664.3	4575.2	4430.8	4297.8	4090.8	3735.7	3633.4	3854.9	4135.3	4057.6
50°	4861.8	4868.9	4857.0	4865.4	4870.2	4740.1	4248.4	4108.3	4372.4	4711.3	4532.5
52.5°	5024.2	4976.1	5015.8	5213.3	5451.5	5403.4	4806.3	4660.2	4927.3	5350.4	5034.5
55°	5020.6	4947.2	5076.6	5425.1	5942.1	5997.5	5432.9	5264.4	5514.1	6035.9	5566.5
57.5°	4843.1	4846.7	5045.9	5502.1	6283.9	6556.0	6159.9	5907.1	6136.5	6730.5	6052.2
60°	4598.8	4631.8	4919.0	5489.5	6557.7	7014.0	7051.9	6599.9	6746.2	7361.9	6454.2
62.5°	4204.5	4239.4	4635.4	5358.3	6516.2	7455.2	7858.3	7385.9	7383.5	7744.7	6572.3
65°	3582.8	3572.6	3988.5	4867.8	6167.8	7781.3	8659.4	8065.4	7863.7	7750.6	6335.0
67.5°	2642.1	2596.4	2953.3	3707.4	5126.5	7416.0	9130.7	8419.3	8027.5	7240.9	5610.5
70°	1371.1	1325.2	1614.1	2164.9	3371.5	5788.0	8608.8	8236.3	7665.8	6069.7	4395.3
72.5°	586.3	578.4	695.7	949.7	1631.0	3338.5	6750.4	7128.9	6577.6	4522.3	3021.9
75°	394.2	391.8	435.8	517.6	733.7	1354.8	4224.4	5060.3	4812.4	2804.0	1699.6
77.5°	309.3	306.4	332.3	371.9	475.5	534.5	1874.8	2716.8	2514.5	1220.6	743.9
80°	241.9	239.6	255.7	277.4	341.9	337.1	616.9	1081.0	836.6	467.6	361.7
82.5°	190.8	190.8	204.0	204.6	242.5	229.9	322.0	476.1	417.7	272.6	221.5
85°	174.5	174.5	188.4	152.8	158.3	145.1	199.8	282.2	264.8	111.9	96.3
87.5°	87.9	85.4	158.3	135.4	86.0	77.0	97.5	136.7	146.9	62.0	48.2
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°	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6	1536.6
2.5°	1529.3	1528.7	1529.9	1530.5	1535.3	1541.9	1545.0	1549.2	1551.6	1550.4
5°	1511.2	1512.4	1517.2	1520.9	1529.3	1540.2	1546.2	1551.0	1555.2	1553.4
7.5°	1496.2	1499.2	1506.4	1509.5	1514.3	1517.2	1516.6	1518.5	1522.0	1517.9
10°	1487.8	1491.4	1496.8	1492.6	1481.1	1464.9	1449.8	1442.1	1444.4	1441.4
12.5°	1479.4	1484.2	1479.9	1460.1	1428.1	1407.2	1395.7	1396.9	1402.3	1403.5
15°	1474.6	1476.3	1458.3	1421.0	1388.5	1385.5	1391.5	1390.3	1390.9	1390.9
17.5°	1474.6	1469.7	1436.0	1398.7	1384.9	1379.4	1360.8	1337.3	1327.1	1323.5
20°	1482.4	1469.7	1428.8	1404.1	1374.0	1327.7	1278.3	1235.0	1215.8	1210.4
22.5°	1505.8	1484.2	1449.2	1406.6	1321.0	1243.4	1165.1	1113.4	1078.5	1072.5
25°	1553.4	1529.3	1489.6	1374.6	1236.8	1126.1	1037.0	979.2	944.3	939.5
27.5°	1636.4	1620.8	1511.2	1304.2	1124.8	1006.3	923.8	879.3	853.4	851.6
30°	1761.6	1753.7	1500.4	1200.1	987.0	890.2	850.4	824.5	805.3	804.7
32.5°	1961.4	1898.2	1464.9	1073.1	861.2	807.7	791.5	775.8	760.8	760.8
35°	2218.4	2015.0	1397.5	937.1	784.8	761.9	741.4	716.8	696.9	695.7
37.5°	2520.6	2087.2	1276.5	827.6	748.7	731.2	701.1	664.4	629.5	623.5
40°	2825.7	2108.9	1106.2	760.2	725.8	700.5	663.8	620.5	586.8	585.0
42.5°	3105.6	2067.4	925.7	713.8	703.0	669.2	630.8	592.2	565.7	565.2
45°	3340.2	1959.7	774.0	669.8	678.9	641.0	606.7	575.4	555.0	550.7
47.5°	3561.2	1807.3	667.5	623.5	654.8	625.3	596.5	566.9	547.1	544.1
50°	3817.6	1643.1	592.8	578.4	633.7	619.9	604.9	574.2	541.0	537.5
52.5°	4128.1	1501.0	534.5	538.7	617.5	627.2	626.6	594.6	536.8	532.0
55°	4474.8	1343.3	490.5	506.2	610.9	640.4	632.0	613.9	540.4	533.3
57.5°	4816.1	1159.2	459.8	481.5	601.3	639.1	606.1	580.2	548.9	538.7
60°	5071.8	911.8	436.4	459.8	580.2	619.3	577.8	543.5	547.1	539.3
62.5°	5088.7	704.8	408.1	441.2	548.3	599.4	559.1	527.2	555.0	547.7
65°	4789.6	532.7	380.9	418.9	513.9	586.8	541.0	518.2	571.1	563.3
67.5°	4032.4	428.5	358.1	396.0	479.7	560.4	524.8	509.7	585.6	571.7
70°	2911.1	365.3	335.8	368.4	449.0	530.2	510.4	494.7	546.5	524.8
72.5°	1792.3	316.6	310.6	331.6	425.5	498.9	488.7	466.5	492.3	474.9
75°	895.0	274.5	282.2	295.5	392.4	463.4	452.6	430.4	433.9	430.4
77.5°	428.5	234.8	249.2	259.4	349.6	423.1	411.6	388.8	384.6	385.1
80°	271.4	196.2	210.0	217.3	312.4	376.1	364.7	341.9	389.9	361.7
82.5°	169.7	159.5	163.1	176.4	272.0	327.4	312.4	291.8	351.5	278.0
85°	93.9	111.3	116.2	127.6	209.4	273.8	258.8	232.9	208.9	205.2
87.5°	56.0	66.2	68.0	76.4	140.9	198.0	175.1	166.1	137.8	137.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)