

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: P269187

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269187
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-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12758.3 lumens
Efficiency: N/A
Efficacy: 102.9 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

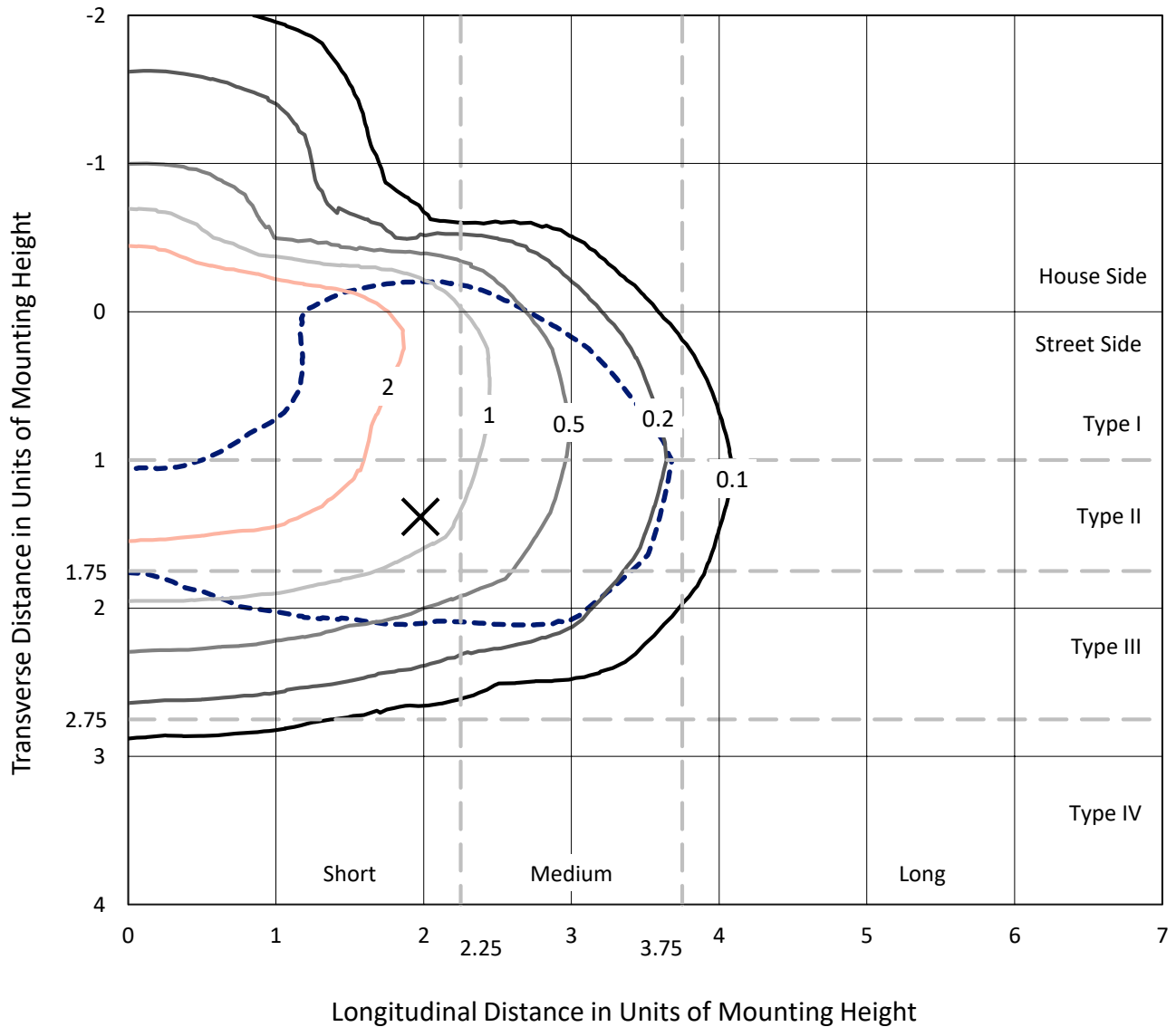
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

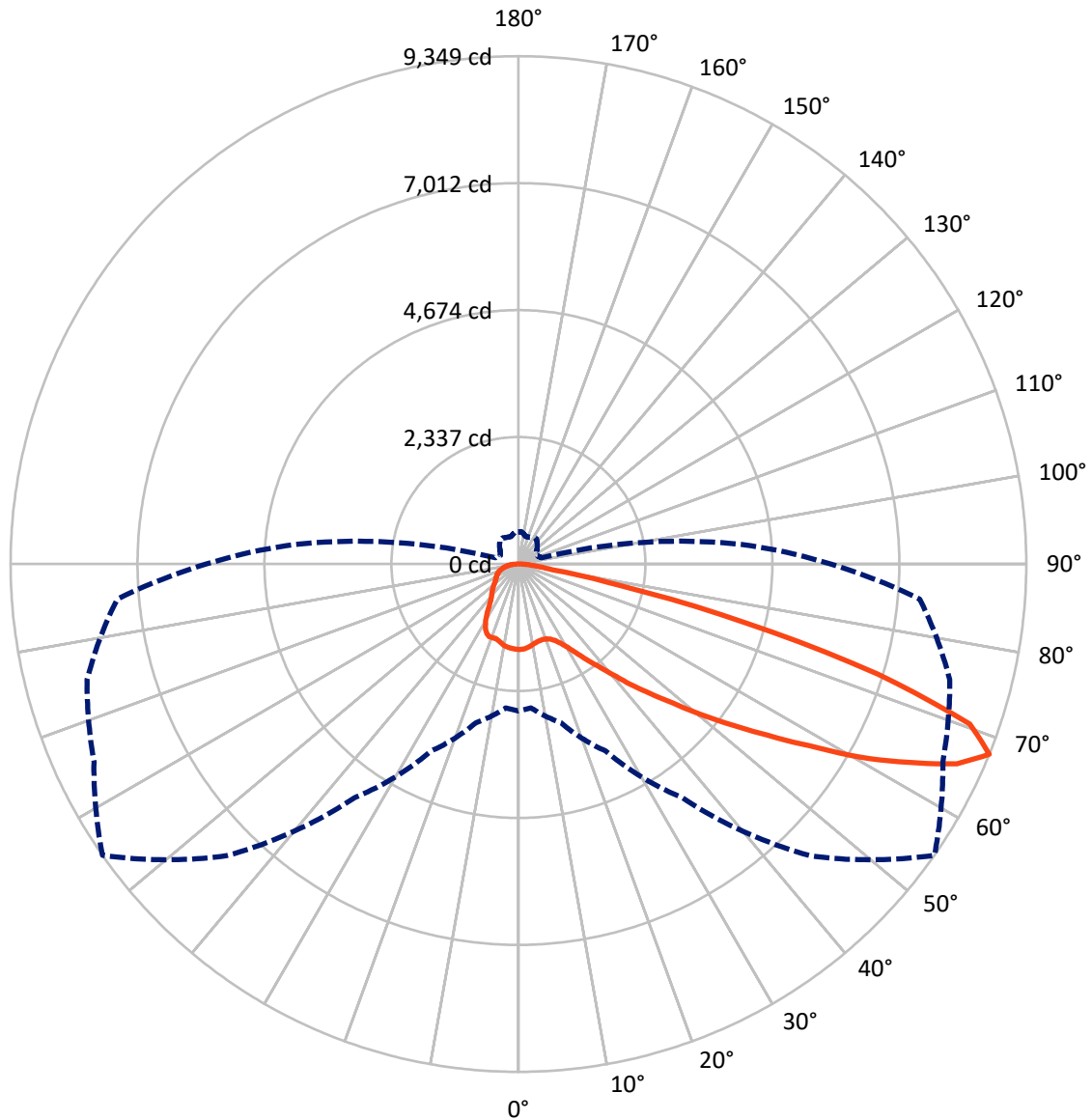
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	2756.1	0.0	2756.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10002.2	0.0	10002.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	12758.3	0.0	12758.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.2
10°-20°	415.9	3.3
20°-30°	696.7	5.5
30°-40°	1145.6	9.0
40°-50°	1928.4	15.1
50°-60°	3035.2	23.8
60°-70°	3622.2	28.4
70°-80°	1555.4	12.2
80°-90°	212.1	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°	12758.3	100.0
0°-180°	12758.3	100.0



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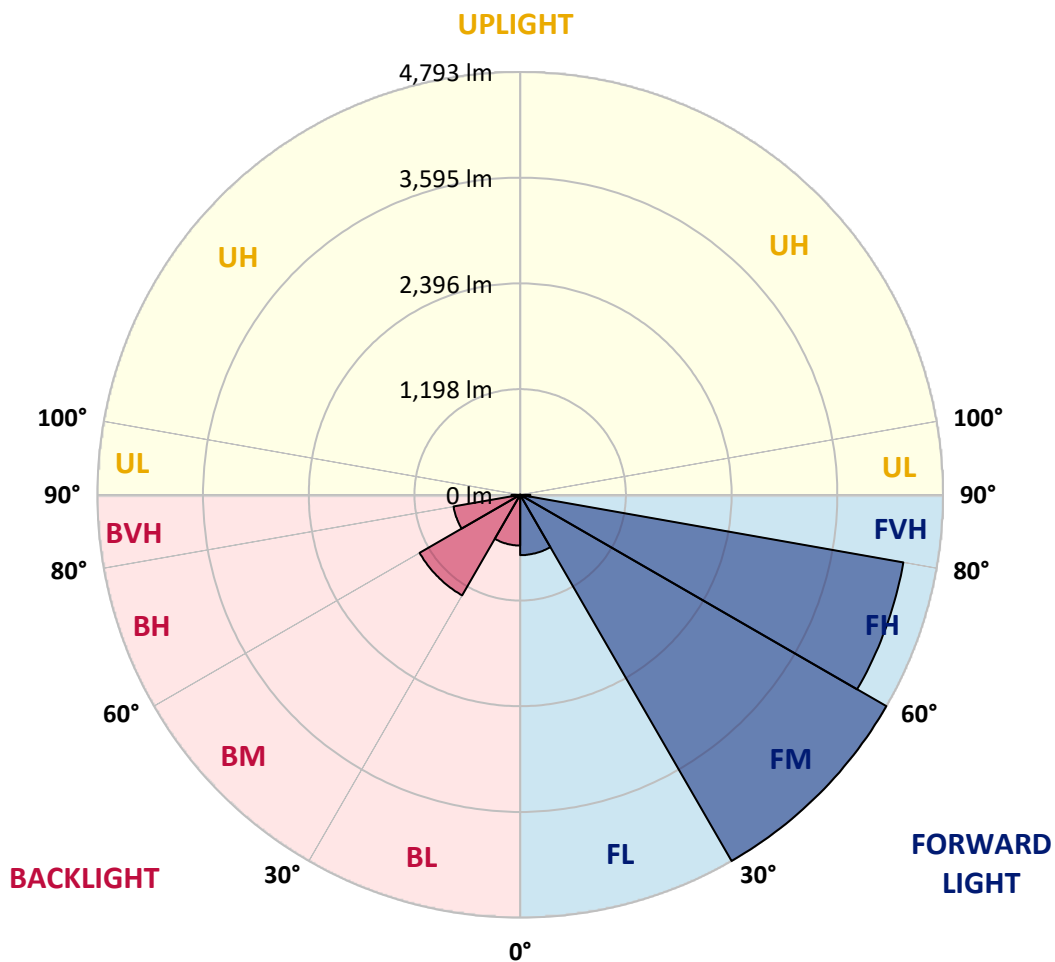
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.9	5.4			
FM (30°-60°)	4793.0	37.6			
FH (60°-80°)	4410.6	34.6			G2/5000
FVH (80°-90°)	114.8	0.9			G2/225
BL (0°-30°)	575.5	4.5	B2/1000		
BM (30°-60°)	1316.3	10.3	B2/2500		
BH (60°-80°)	767.0	6.0	B2/1000		G2/1000
BVH (80°-90°)	97.3	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°	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1559.6	1560.3	1561.6	1566.5	1570.7	1569.6	1570.1	1567.7	1567.1	1563.4	1567.1
5°	1540.0	1541.9	1542.4	1550.5	1555.3	1556.7	1554.7	1551.6	1548.0	1544.2	1546.2
7.5°	1495.0	1499.9	1500.4	1511.6	1519.7	1530.2	1530.7	1531.3	1529.5	1526.9	1530.7
10°	1466.7	1467.9	1467.2	1475.2	1481.5	1493.2	1499.9	1511.6	1516.6	1517.7	1520.2
12.5°	1464.7	1463.6	1461.7	1461.7	1459.8	1464.7	1477.2	1493.7	1505.5	1509.2	1512.2
15°	1484.4	1483.9	1477.7	1468.5	1456.8	1453.1	1463.6	1482.1	1497.5	1505.5	1508.6
17.5°	1528.8	1525.1	1515.4	1494.4	1469.1	1459.2	1460.5	1475.8	1493.7	1504.2	1507.3
20°	1610.2	1610.2	1589.2	1549.8	1504.8	1481.5	1470.3	1479.6	1496.8	1510.9	1515.4
22.5°	1750.6	1752.0	1716.8	1652.2	1576.3	1526.4	1498.6	1496.8	1517.1	1533.1	1538.1
25°	1949.7	1944.8	1895.6	1803.1	1687.8	1605.4	1557.2	1546.2	1563.4	1581.2	1587.5
27.5°	2181.4	2163.6	2105.1	1993.5	1844.4	1723.6	1649.6	1631.9	1648.4	1668.7	1674.9
30°	2410.7	2392.1	2322.6	2200.6	2034.8	1881.9	1775.9	1747.1	1770.4	1799.3	1803.1
32.5°	2639.8	2639.8	2562.2	2419.9	2239.4	2071.1	1944.2	1909.6	1948.6	1983.6	1991.6
35°	2914.1	2915.4	2840.3	2668.9	2474.8	2296.6	2156.8	2131.6	2190.1	2214.7	2233.8
37.5°	3251.2	3258.1	3161.2	2954.2	2741.5	2554.3	2387.9	2353.4	2411.9	2479.1	2540.8
40°	3615.4	3624.0	3517.5	3262.4	3049.7	2853.7	2673.8	2611.6	2709.0	2837.1	2916.5
42.5°	3963.0	4007.3	3904.5	3641.9	3413.3	3210.5	3028.1	2937.5	3059.5	3253.1	3322.1
45°	4465.3	4497.3	4318.0	4080.0	3865.0	3638.2	3396.6	3301.1	3471.8	3715.8	3730.0
47.5°	4799.9	4775.7	4684.7	4536.7	4400.4	4188.4	3825.0	3720.2	3947.0	4234.2	4154.7
50°	4977.9	4985.4	4972.9	4981.6	4986.5	4853.5	4350.0	4206.5	4477.0	4823.9	4640.9
52.5°	5144.2	5094.9	5135.7	5337.8	5581.8	5532.5	4921.3	4771.4	5045.2	5478.3	5154.7
55°	5140.6	5065.5	5198.0	5554.7	6084.0	6140.8	5562.8	5390.2	5645.8	6180.2	5699.4
57.5°	4958.9	4962.4	5166.5	5633.6	6434.1	6712.6	6307.1	6048.3	6283.0	6891.3	6196.8
60°	4708.6	4742.5	5036.4	5620.6	6714.4	7181.5	7220.3	6757.6	6907.2	7537.7	6608.4
62.5°	4304.9	4340.7	4746.3	5486.3	6671.9	7633.3	8046.1	7562.4	7559.9	7929.7	6729.3
65°	3668.4	3658.0	4083.8	4984.1	6315.2	7967.2	8866.4	8258.1	8051.7	7935.7	6486.4
67.5°	2705.2	2658.4	3023.9	3796.0	5249.1	7593.3	9348.8	8620.5	8219.3	7413.8	5744.5
70°	1403.8	1356.9	1652.7	2216.6	3452.1	5926.3	8814.6	8433.1	7848.9	6214.7	4500.2
72.5°	600.2	592.3	712.4	972.4	1669.9	3418.2	6911.6	7299.3	6734.8	4630.4	3094.1
75°	403.6	401.2	446.2	530.0	751.3	1387.2	4325.2	5181.2	4927.4	2871.1	1740.2
77.5°	316.7	313.7	340.2	380.8	486.8	547.2	1919.6	2781.6	2574.6	1249.7	761.7
80°	247.8	245.2	261.9	284.0	350.0	345.0	631.7	1106.7	856.5	478.7	370.3
82.5°	195.3	195.3	208.9	209.6	248.3	235.4	329.7	487.4	427.7	279.2	226.8
85°	178.8	178.8	192.9	156.6	162.1	148.5	204.5	289.1	271.2	114.7	98.6
87.5°	90.0	87.6	162.1	138.7	88.2	79.0	99.8	139.9	150.3	63.5	49.2
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°	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1565.8	1565.2	1566.5	1567.1	1572.0	1578.9	1581.8	1586.1	1588.7	1587.5
5°	1547.3	1548.6	1553.4	1557.2	1565.8	1577.0	1583.2	1588.1	1592.3	1590.4
7.5°	1532.0	1535.1	1542.4	1545.5	1550.5	1553.4	1552.9	1554.7	1558.5	1554.2
10°	1523.3	1526.9	1532.6	1528.2	1516.6	1499.9	1484.4	1476.5	1479.0	1475.8
12.5°	1514.7	1519.7	1515.4	1495.0	1462.4	1440.7	1429.1	1430.3	1435.9	1437.1
15°	1509.7	1511.6	1493.2	1455.0	1421.7	1418.6	1424.7	1423.5	1424.2	1424.2
17.5°	1509.7	1504.8	1470.3	1432.1	1418.0	1412.3	1393.4	1369.2	1358.7	1355.2
20°	1517.7	1504.8	1462.9	1437.6	1406.8	1359.5	1308.9	1264.5	1244.8	1239.2
22.5°	1541.9	1519.7	1483.9	1440.2	1352.6	1273.2	1192.9	1139.9	1104.2	1098.1
25°	1590.4	1565.8	1525.1	1407.5	1266.3	1153.0	1061.7	1002.6	966.8	961.9
27.5°	1675.5	1659.4	1547.3	1335.4	1151.7	1030.4	945.9	900.3	873.8	872.0
30°	1803.6	1795.7	1536.2	1228.7	1010.7	911.4	870.7	844.2	824.6	823.8
32.5°	2008.3	1943.7	1499.9	1098.7	881.9	827.0	810.4	794.3	778.9	778.9
35°	2271.5	2063.1	1430.9	959.5	803.5	780.2	759.2	733.9	713.7	712.4
37.5°	2580.8	2137.1	1307.0	847.3	766.7	748.6	717.9	680.3	644.5	638.4
40°	2893.3	2159.3	1132.7	778.3	743.2	717.2	679.7	635.3	600.8	599.0
42.5°	3179.7	2116.8	947.7	730.9	719.7	685.2	645.8	606.4	579.2	578.7
45°	3420.0	2006.5	792.5	685.9	695.1	656.3	621.2	589.1	568.2	563.9
47.5°	3646.2	1850.6	683.4	638.4	670.5	640.2	610.7	580.5	560.2	557.0
50°	3908.7	1682.3	607.0	592.3	648.8	634.7	619.3	587.9	554.0	550.3
52.5°	4226.7	1536.9	547.2	551.5	632.2	642.1	641.5	608.8	549.7	544.7
55°	4581.6	1375.5	502.2	518.2	625.5	655.7	647.0	628.5	553.4	546.0
57.5°	4931.1	1186.9	470.8	493.0	615.6	654.4	620.5	594.0	562.0	551.5
60°	5193.0	933.6	446.7	470.8	594.0	634.2	591.5	556.5	560.2	552.2
62.5°	5210.2	721.6	417.8	451.7	561.4	613.7	572.5	539.8	568.2	560.7
65°	4903.9	545.5	390.0	428.9	526.2	600.8	554.0	530.5	584.7	576.8
67.5°	4128.7	438.7	366.7	405.5	491.2	573.7	537.4	521.9	599.6	585.4
70°	2980.7	374.1	343.8	377.1	459.8	542.8	522.5	506.6	559.6	537.4
72.5°	1835.1	324.2	318.0	339.5	435.7	510.9	500.4	477.5	504.0	486.3
75°	916.4	281.0	289.1	302.5	401.8	474.5	463.3	440.6	444.3	440.6
77.5°	438.7	240.3	255.1	265.5	358.1	433.3	421.6	398.0	393.7	394.4
80°	277.9	201.0	215.1	222.5	319.8	385.2	373.4	350.0	399.3	370.3
82.5°	173.8	163.3	166.9	180.6	278.6	335.2	319.8	298.9	360.0	284.8
85°	96.1	114.1	118.9	130.7	214.4	280.5	265.0	238.5	213.8	210.2
87.5°	57.3	67.8	69.6	78.2	144.2	202.7	179.3	170.0	141.2	140.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)