

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: P193211

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11840.4 lumens
Efficiency: N/A
Efficacy: 123.3 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



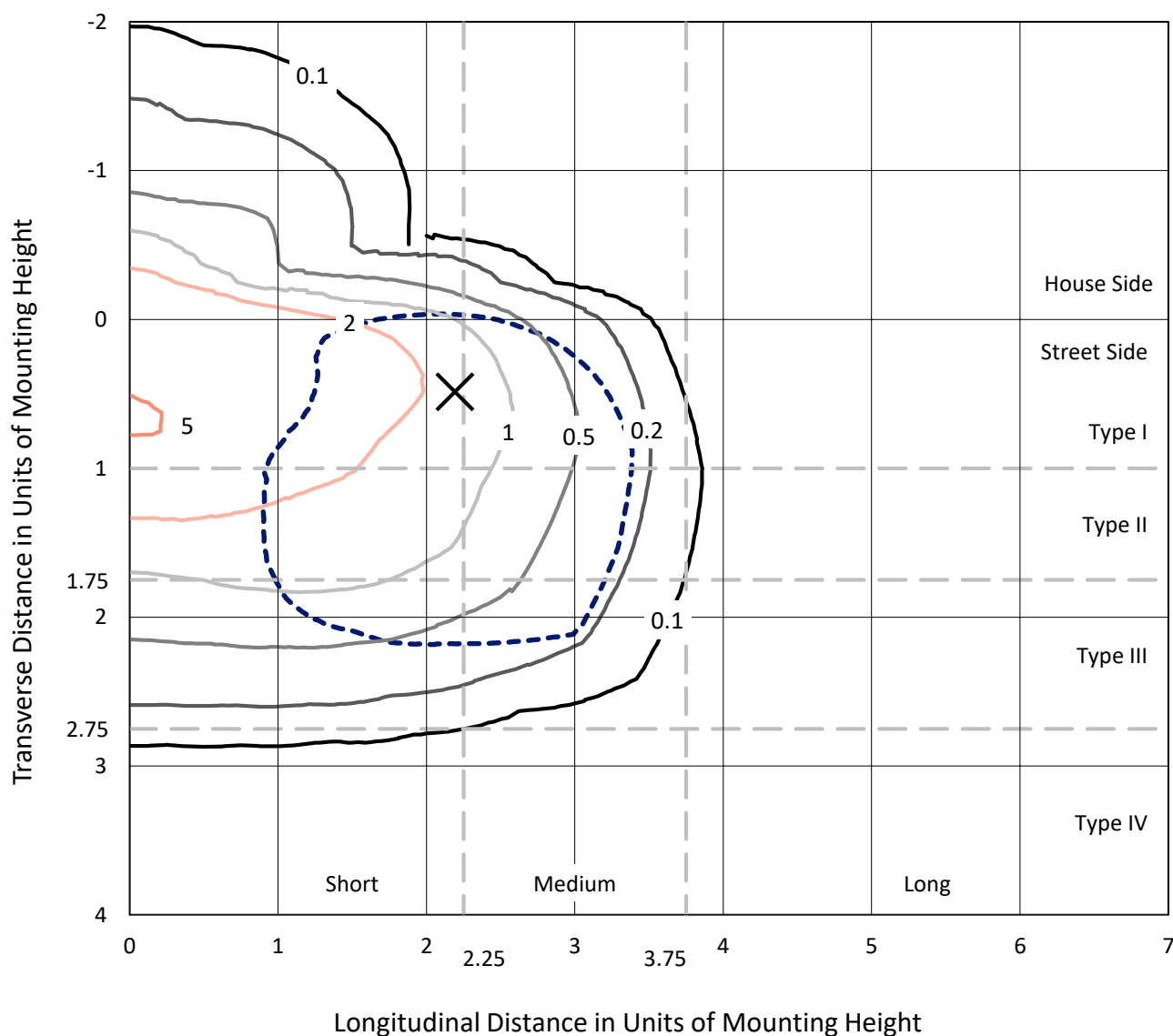
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

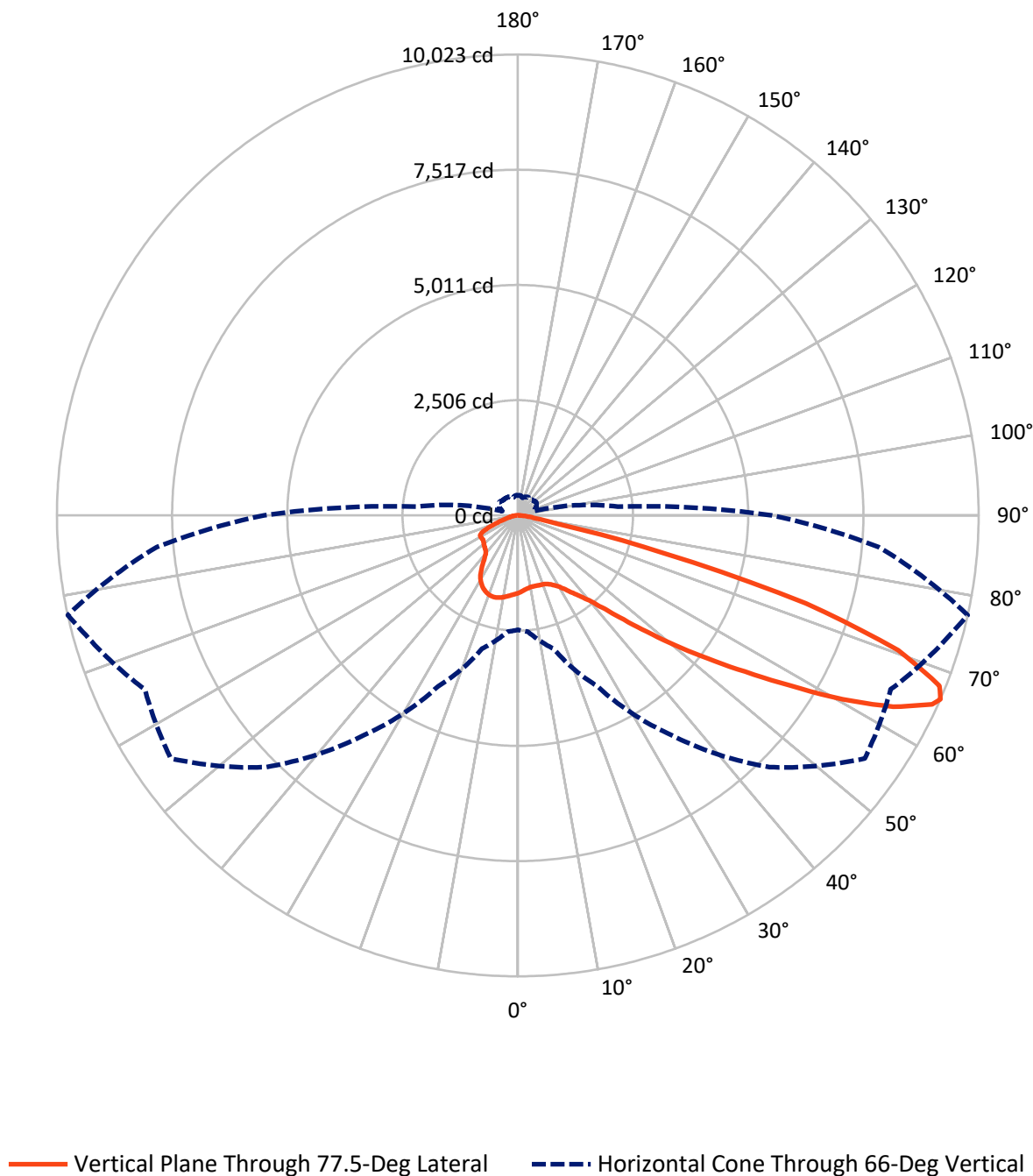


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.9	0.0	2022.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9817.6	0.0	9817.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	11840.4	0.0	11840.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.3
10°-20°	425.3	3.6
20°-30°	725.8	6.1
30°-40°	1161.9	9.8
40°-50°	1795.0	15.2
50°-60°	2546.0	21.5
60°-70°	3405.8	28.8
70°-80°	1479.1	12.5
80°-90°	150.8	1.3
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°	11840.4	100.0
0°-180°	11840.4	100.0

Coefficient of Utilization



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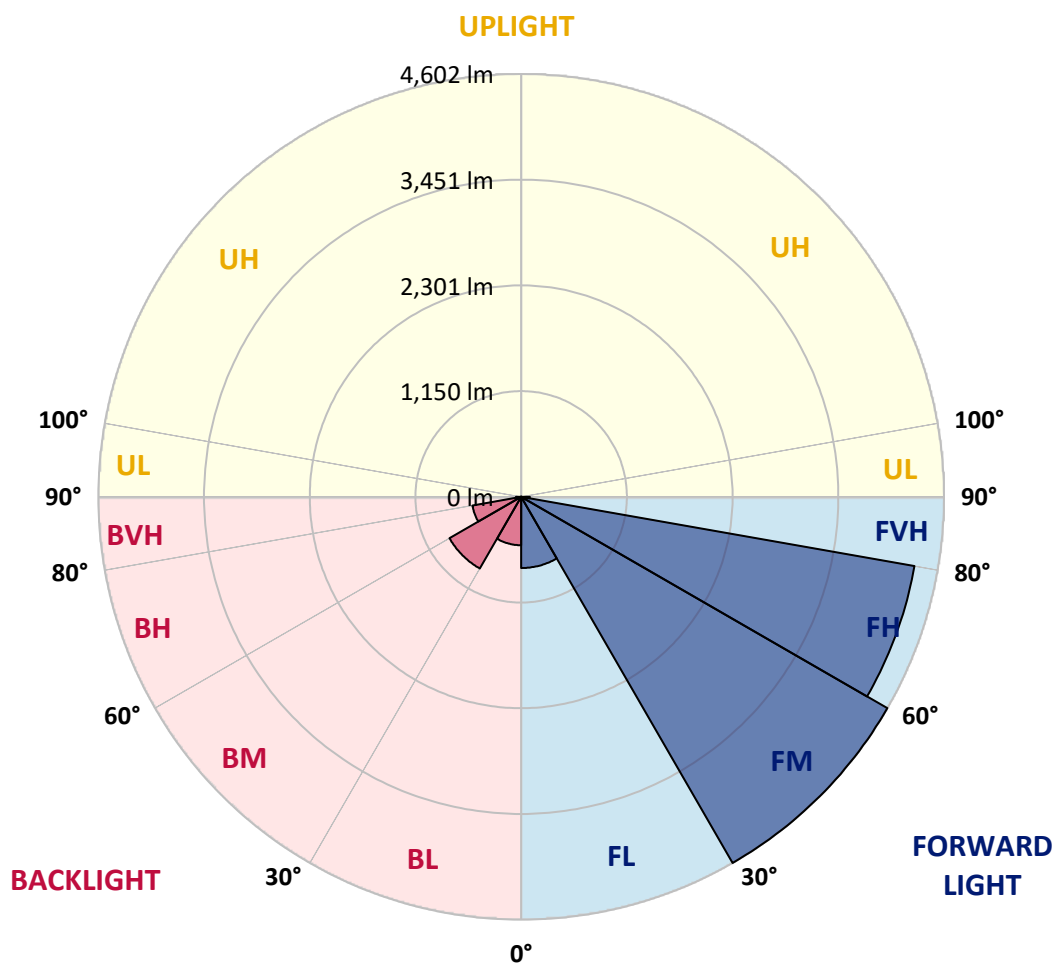
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.0	6.5			
FM	(30°-60°)	4601.8	38.9			
FH	(60°-80°)	4346.2	36.7			G2/5000
FVH	(80°-90°)	94.6	0.8			G1/100
BL	(0°-30°)	526.8	4.4	B2/1000		
BM	(30°-60°)	901.1	7.6	B1/1000		
BH	(60°-80°)	538.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	56.2	0.5			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°	77.5°	85°
0°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1492.6	1502.7	1511.0	1518.9	1534.5	1560.3	1589.9	1614.0	1648.7	1655.4	1673.9
5°	1355.6	1355.6	1362.3	1374.1	1395.2	1433.9	1474.1	1527.9	1603.4	1621.3	1670.6
7.5°	1288.9	1289.6	1293.4	1303.6	1322.0	1357.2	1401.5	1464.6	1567.0	1596.8	1680.6
10°	1313.7	1308.1	1299.6	1294.6	1297.4	1318.1	1360.1	1430.5	1544.7	1582.7	1703.1
12.5°	1451.2	1440.6	1411.5	1373.0	1336.0	1320.8	1345.5	1414.3	1535.1	1579.4	1732.7
15°	1676.1	1671.6	1617.4	1537.4	1447.9	1373.0	1356.1	1408.2	1536.3	1583.2	1768.0
17.5°	1958.2	1951.9	1880.4	1764.0	1617.9	1471.9	1393.6	1413.2	1540.2	1589.9	1802.0
20°	2242.9	2223.9	2146.6	2007.8	1820.5	1606.7	1455.7	1426.1	1545.3	1597.3	1837.8
22.5°	2455.5	2439.8	2370.4	2235.6	2019.6	1762.8	1539.0	1448.4	1561.5	1618.4	1882.0
25°	2642.3	2643.4	2574.5	2444.2	2221.0	1928.4	1646.4	1508.4	1602.9	1662.2	1942.4
27.5°	2873.4	2860.0	2795.6	2666.4	2420.2	2095.7	1776.2	1590.5	1664.3	1724.2	2021.9
30°	3149.7	3140.2	3065.9	2919.2	2641.3	2275.4	1924.5	1686.2	1743.8	1805.9	2125.9
32.5°	3474.8	3470.3	3393.0	3204.6	2896.4	2486.7	2098.6	1812.6	1862.5	1926.8	2275.4
35°	3856.3	3856.9	3765.7	3539.1	3175.5	2732.9	2296.0	1975.4	2006.8	2073.8	2453.2
37.5°	4091.3	4119.8	4085.7	3854.6	3491.6	3008.2	2552.2	2191.4	2171.2	2238.9	2644.0
40°	4141.7	4176.3	4284.3	4166.8	3845.2	3311.4	2779.3	2398.9	2373.7	2456.5	2889.6
42.5°	4071.1	4119.3	4347.5	4430.4	4220.5	3685.1	3084.8	2707.2	2675.3	2786.6	3195.1
45°	4029.2	4065.0	4329.1	4567.4	4546.2	4107.5	3473.7	3094.3	3082.6	3228.6	3547.5
47.5°	3956.5	3988.9	4242.9	4599.3	4737.5	4494.7	3940.8	3567.7	3590.6	3781.9	3945.3
50°	3995.6	4009.0	4146.7	4518.2	4792.8	4778.4	4462.8	4115.9	4194.3	4433.0	4395.6
52.5°	3990.0	4024.7	4135.5	4385.0	4800.1	4953.4	4976.9	4727.4	4892.4	5166.6	4895.3
55°	3225.8	3289.6	4004.1	4351.5	4825.9	5125.2	5434.5	5371.8	5679.7	5999.0	5459.1
57.5°	3080.3	3120.7	3516.7	4421.9	4962.3	5453.0	5943.7	6081.3	6596.0	6966.9	6146.2
60°	3051.8	3101.7	3511.7	4508.0	5239.3	5987.3	6698.3	6940.0	7711.0	8117.1	6942.9
62.5°	2962.9	3016.5	3478.7	4496.9	5632.7	6726.3	7664.5	7853.1	8768.4	9163.3	7609.2
65°	2680.9	2731.3	3209.6	4316.2	5897.9	7515.2	8808.1	8690.1	9603.1	9900.1	7941.5
66°	2488.0	2537.1	2997.5	4103.6	5836.2	7739.0	9213.1	8949.1	9789.9	10022.7	7876.6
67.5°	2134.9	2173.5	2585.8	3627.5	5509.0	7801.6	9553.8	9143.7	9809.6	9891.7	7505.7
70°	1348.8	1360.1	1680.6	2504.1	4170.2	6766.1	9035.2	8660.3	9000.6	8777.9	6292.2
72.5°	585.2	581.3	806.8	1273.9	2360.9	4539.9	7308.7	7145.9	7060.4	6552.4	4404.6
75°	325.6	330.1	419.0	591.3	959.6	2230.0	4781.0	4575.2	3863.1	3296.4	1997.3
77.5°	261.2	267.4	347.5	419.5	430.8	777.6	2237.3	1820.5	1096.0	879.4	554.9
80°	206.4	217.7	303.2	326.6	290.4	320.5	722.9	577.9	433.5	397.8	287.6
82.5°	163.4	171.2	260.1	247.3	203.1	215.9	346.4	337.4	282.0	256.8	166.2
85°	117.5	131.9	213.7	186.3	133.2	145.5	229.9	220.3	161.7	131.9	73.3
87.5°	48.1	62.6	151.1	123.7	74.4	67.7	114.7	107.9	76.6	55.9	36.4
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°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1685.7	1699.1	1716.5	1727.1	1732.7	1736.5	1742.6	1742.1	1743.8	1744.5	1746.6
5°	1696.8	1719.2	1744.5	1751.1	1751.1	1745.0	1738.8	1728.7	1724.7	1723.7	1724.7
7.5°	1726.0	1750.6	1772.4	1764.5	1747.7	1723.1	1691.3	1663.3	1648.1	1643.2	1641.9
10°	1762.8	1792.5	1801.4	1771.7	1722.6	1663.3	1600.0	1554.2	1527.9	1520.6	1518.3
12.5°	1807.5	1835.5	1823.3	1760.6	1669.4	1573.8	1486.5	1413.2	1358.3	1341.0	1339.8
15°	1856.9	1878.6	1835.5	1726.0	1589.9	1449.0	1293.4	1167.0	1098.8	1077.0	1075.2
17.5°	1902.7	1913.9	1828.4	1665.5	1473.1	1244.8	1038.4	941.0	917.6	923.1	924.3
20°	1941.9	1941.9	1803.7	1578.8	1288.9	975.6	845.3	843.7	860.4	877.3	880.6
22.5°	1984.9	1959.2	1760.6	1456.2	1028.2	798.3	779.3	795.0	814.0	832.4	835.3
25°	2038.1	1973.2	1700.7	1270.5	808.4	725.1	732.4	745.1	754.7	766.5	768.1
27.5°	2097.4	1991.1	1621.9	1014.8	701.6	679.1	684.7	689.2	688.2	692.6	693.7
30°	2168.5	2011.8	1513.9	793.3	657.4	640.0	630.0	626.0	626.0	633.2	636.1
32.5°	2263.6	2042.6	1358.9	679.7	636.1	612.1	579.6	565.1	570.7	595.3	600.8
35°	2368.2	2075.6	1149.1	641.2	631.6	599.2	548.8	521.9	522.5	545.4	552.8
37.5°	2482.3	2117.6	919.2	633.8	641.7	599.8	532.6	495.7	480.5	480.5	483.4
40°	2628.3	2160.6	744.0	638.9	662.9	606.5	524.2	474.9	432.4	433.5	435.8
42.5°	2818.6	2197.5	650.1	649.5	688.7	615.3	523.7	447.5	410.6	435.8	458.8
45°	3030.0	2216.0	608.7	659.1	709.4	621.0	514.7	443.0	413.4	488.4	532.1
47.5°	3273.4	2205.4	585.7	662.4	714.4	621.0	504.7	453.8	433.0	565.6	616.6
50°	3540.2	2174.6	563.3	655.7	712.7	619.8	514.2	464.4	440.4	579.1	614.2
52.5°	3854.1	2148.9	539.8	641.2	701.0	613.7	525.3	459.9	417.4	526.4	551.1
55°	4212.2	2156.1	513.6	620.5	682.6	602.0	521.3	442.0	393.4	463.8	478.9
57.5°	4669.7	2242.9	482.3	594.2	657.4	582.4	507.4	433.5	386.0	420.7	429.6
60°	5180.5	2393.9	443.0	567.8	626.0	551.1	496.8	437.5	389.4	417.4	421.8
62.5°	5555.4	2481.8	409.5	529.3	583.6	516.4	483.4	442.5	398.4	429.1	428.0
65°	5657.2	2337.4	367.5	472.8	525.9	479.9	466.5	448.1	402.3	438.5	433.5
66°	5514.6	2181.9	349.1	446.5	496.8	462.0	458.3	447.5	400.6	439.8	431.3
67.5°	5168.3	1863.0	317.2	407.9	450.3	435.3	444.8	442.5	396.1	438.5	426.8
70°	4214.9	1271.1	271.3	339.6	374.9	383.2	419.0	424.6	381.6	419.0	393.4
72.5°	2945.0	774.3	240.1	263.6	303.2	326.6	383.8	400.0	361.9	365.9	341.2
75°	1423.2	411.3	217.7	204.2	235.6	273.0	341.2	366.4	331.2	306.0	297.0
77.5°	443.7	251.2	184.6	164.4	184.6	220.3	285.2	321.1	294.8	256.2	252.8
80°	238.3	184.6	142.1	131.9	146.0	172.8	224.3	268.0	253.5	229.9	205.3
82.5°	157.3	119.7	105.2	102.3	111.3	131.9	166.7	222.2	222.2	196.8	143.2
85°	81.1	73.3	72.2	72.2	77.8	87.9	113.5	171.2	182.4	104.1	86.2
87.5°	40.3	41.9	39.2	40.9	43.6	43.0	54.3	86.2	102.9	63.3	52.6
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)