

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: P270213

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10254.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

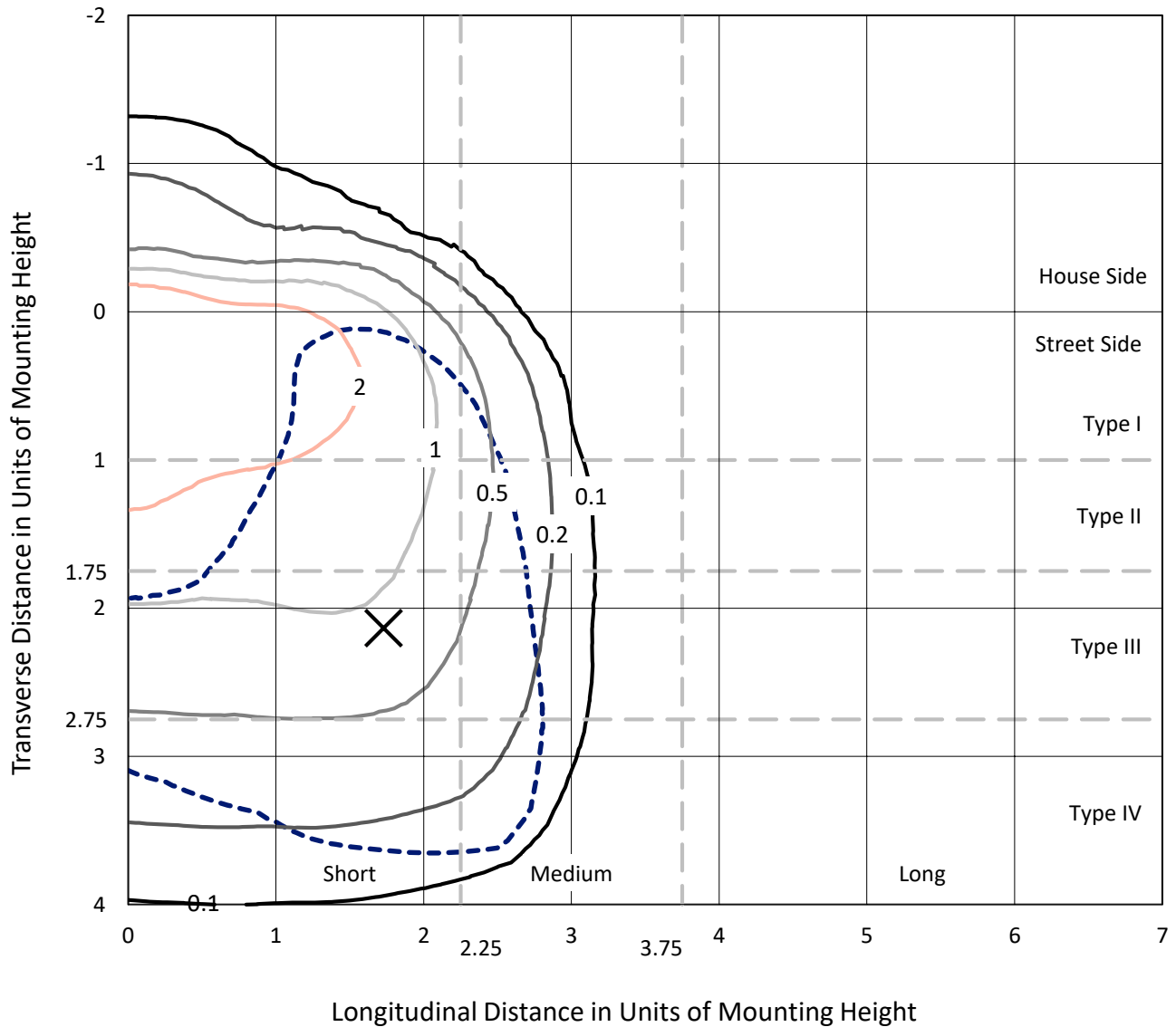
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

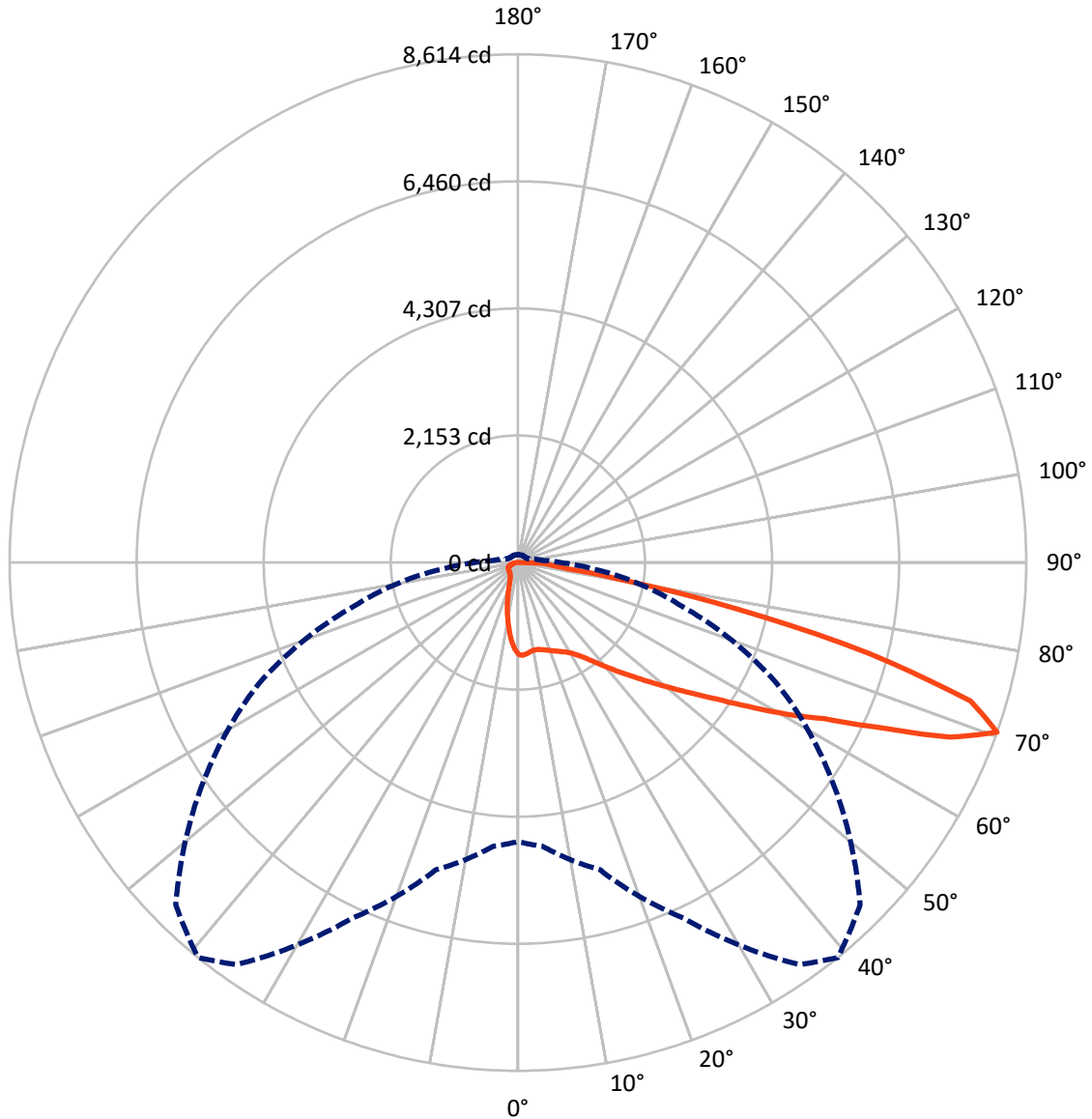
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.3	0.0	1166.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9088.2	0.0	9088.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	10254.5	0.0	10254.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.3
10°-20°	334.0	3.3
20°-30°	520.0	5.1
30°-40°	810.0	7.9
40°-50°	1359.9	13.3
50°-60°	2160.3	21.1
60°-70°	2881.6	28.1
70°-80°	1740.1	17.0
80°-90°	314.9	3.1
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°	10254.5	100.0
0°-180°	10254.5	100.0



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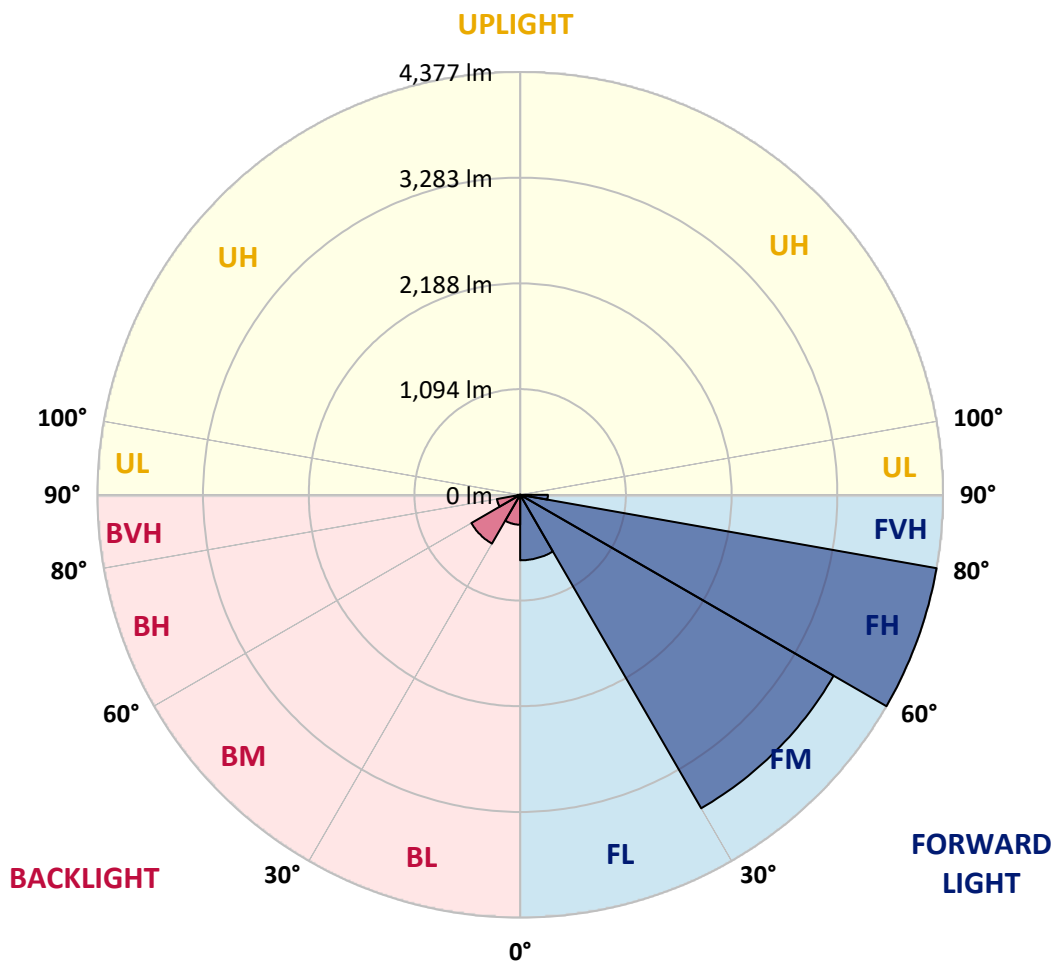
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.1	6.6			
FM	(30°-60°)	3746.6	36.5			
FH	(60°-80°)	4376.9	42.7			G2/5000
FVH	(80°-90°)	286.6	2.8			G3/500
BL	(0°-30°)	309.4	3.0	B1/500		
BM	(30°-60°)	583.7	5.7	B1/1000		
BH	(60°-80°)	244.8	2.4	B1/500		G1/500
BVH	(80°-90°)	28.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1587.0	1586.4	1582.4	1579.2	1576.6	1575.5	1577.7	1569.8	1563.1	1554.6	1545.9
5°	1575.1	1574.5	1567.7	1561.4	1555.2	1553.1	1552.6	1538.5	1530.3	1517.6	1501.0
7.5°	1562.1	1559.4	1550.6	1540.1	1529.2	1524.0	1518.8	1500.4	1491.0	1478.6	1459.2
10°	1548.5	1545.4	1537.0	1526.6	1516.1	1508.3	1499.5	1481.8	1471.9	1462.4	1440.1
12.5°	1534.3	1531.8	1529.6	1525.1	1517.6	1510.9	1504.1	1489.0	1478.6	1467.7	1441.6
15°	1532.2	1531.3	1535.9	1539.1	1534.9	1530.7	1523.4	1510.4	1499.5	1488.5	1454.6
17.5°	1548.9	1548.5	1560.4	1568.8	1566.7	1559.4	1549.4	1534.9	1526.0	1516.7	1474.4
20°	1585.5	1588.1	1602.7	1613.6	1603.1	1592.8	1576.6	1556.3	1551.6	1547.4	1494.8
22.5°	1654.3	1657.0	1667.3	1671.4	1644.3	1629.3	1606.9	1580.7	1577.7	1580.7	1519.3
25°	1761.7	1759.2	1757.5	1741.9	1692.3	1669.0	1640.2	1613.0	1614.7	1628.7	1553.7
27.5°	1904.0	1889.9	1868.0	1821.1	1742.4	1716.3	1681.4	1656.4	1666.3	1693.3	1605.4
30°	2051.5	2035.9	1985.3	1908.7	1808.1	1779.5	1740.3	1712.2	1738.2	1781.0	1674.1
32.5°	2188.2	2186.0	2112.1	2013.6	1898.7	1873.8	1834.7	1802.9	1845.1	1910.2	1777.3
35°	2337.3	2342.1	2253.4	2135.0	2021.4	1995.2	1967.1	1943.2	1999.4	2089.1	1927.0
37.5°	2496.7	2506.2	2401.3	2268.0	2161.1	2150.2	2133.5	2123.1	2210.1	2334.2	2136.0
40°	2710.0	2700.7	2555.1	2418.1	2332.5	2332.1	2326.9	2339.4	2484.4	2654.2	2404.6
42.5°	2938.4	2910.8	2718.5	2579.3	2520.9	2538.5	2548.9	2600.1	2814.3	3043.2	2731.9
45°	3184.5	3122.5	2887.8	2749.7	2729.9	2767.4	2802.8	2913.9	3202.7	3485.9	3090.7
47.5°	3381.0	3321.2	3063.0	2928.6	2971.8	3028.6	3096.8	3272.6	3637.5	3943.1	3444.6
50°	3535.9	3496.8	3239.7	3137.1	3238.2	3325.7	3437.4	3678.7	4090.2	4388.3	3772.6
52.5°	3686.0	3656.8	3418.1	3350.8	3551.0	3672.0	3823.6	4114.5	4554.0	4826.2	4048.4
55°	3821.6	3800.8	3609.8	3617.2	3919.0	4076.6	4267.4	4610.9	5059.9	5216.7	4282.0
57.5°	3974.5	3947.8	3828.8	3951.5	4392.0	4596.4	4844.5	5168.8	5534.3	5564.0	4459.7
60°	4128.3	4105.3	4071.8	4337.2	4992.6	5207.4	5442.6	5709.4	6015.5	5833.6	4449.3
62.5°	4261.6	4264.3	4323.2	4742.3	5580.7	5829.5	6116.1	6379.9	6450.9	5880.5	4120.3
65°	4487.9	4529.1	4704.9	5315.8	6408.6	6741.2	7093.1	7050.9	6571.3	5442.0	3414.9
67.5°	4757.0	4829.4	5185.5	6080.2	7455.0	7896.6	8032.6	7202.7	6089.0	4423.8	2434.2
70°	4729.8	4829.4	5393.1	6650.1	8317.3	8613.5	8200.5	6518.6	4835.1	2889.9	1293.0
72.5°	4200.1	4342.4	4970.1	6388.7	8045.7	8019.6	7119.2	4859.7	2872.7	1160.6	505.1
75°	3201.2	3345.1	3885.2	5047.3	6359.1	6140.2	5051.4	2684.6	1090.2	460.9	318.5
77.5°	1841.4	1953.1	2370.1	3095.3	4034.3	3809.6	2811.8	1193.9	530.8	321.1	248.7
80°	1028.1	1090.2	1343.5	1570.3	1977.0	1812.3	1258.0	741.9	396.2	233.0	191.9
82.5°	812.7	868.1	1086.5	990.7	902.9	833.2	722.5	660.6	316.5	147.1	114.8
85°	710.1	762.8	919.7	780.0	616.7	565.8	587.0	650.2	246.0	88.7	98.1
87.5°	658.0	728.3	819.6	601.1	480.1	425.4	541.7	712.7	79.2	55.2	39.6
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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1538.0	1529.6	1516.1	1504.1	1485.3	1475.5	1464.4	1456.7	1450.5	1445.3	1453.5
5°	1490.6	1474.9	1446.4	1415.5	1379.0	1350.3	1326.3	1303.9	1288.3	1277.8	1285.1
7.5°	1445.7	1420.2	1375.3	1319.6	1257.0	1203.8	1160.0	1121.4	1094.9	1077.6	1084.4
10°	1420.2	1388.4	1319.0	1231.4	1139.2	1056.2	987.4	927.9	886.8	863.5	867.0
12.5°	1413.9	1372.8	1276.9	1156.4	1030.3	915.1	818.0	735.6	677.9	647.6	648.5
15°	1418.7	1366.0	1237.1	1084.4	925.0	779.4	658.5	558.3	491.2	456.7	456.2
17.5°	1426.5	1360.8	1195.5	1006.8	818.0	649.0	514.1	416.1	356.5	329.0	327.0
20°	1434.9	1352.4	1148.6	922.7	707.0	528.2	402.5	325.8	288.4	273.2	272.1
22.5°	1446.8	1345.1	1100.1	834.2	598.0	430.1	331.0	279.5	259.6	251.9	250.7
25°	1466.0	1341.4	1048.4	741.9	499.9	359.7	288.4	256.6	245.1	239.8	239.3
27.5°	1498.5	1346.6	1000.0	652.2	420.1	312.3	264.3	245.1	236.8	232.0	231.6
30°	1540.1	1362.9	948.9	567.2	358.2	280.0	249.6	237.2	230.4	225.7	225.7
32.5°	1609.5	1389.9	895.3	493.7	313.9	257.5	238.8	230.4	224.7	221.1	220.5
35°	1711.6	1441.1	845.1	432.8	282.1	241.4	229.3	223.1	218.9	216.9	216.9
37.5°	1860.2	1521.9	800.7	389.0	262.8	230.4	220.5	215.9	213.3	213.3	213.3
40°	2060.0	1633.5	764.8	359.7	251.9	222.6	213.7	210.2	208.5	209.0	209.0
42.5°	2306.5	1778.4	740.8	339.4	246.7	217.8	209.0	205.9	204.4	203.8	204.4
45°	2587.6	1943.2	738.2	324.3	241.4	214.9	205.9	202.7	199.8	197.5	197.5
47.5°	2860.7	2110.5	759.6	319.1	235.6	211.1	203.3	200.2	195.6	190.8	190.8
50°	3102.1	2252.8	788.4	321.1	233.6	205.9	199.2	197.5	190.4	185.1	184.5
52.5°	3293.9	2362.4	811.8	327.4	235.6	202.3	193.9	194.5	186.7	180.9	180.4
55°	3447.8	2434.2	805.5	333.7	240.3	200.2	189.3	190.4	184.1	178.4	178.4
57.5°	3515.1	2407.6	736.3	328.5	244.0	200.7	185.6	189.8	184.5	179.3	179.3
60°	3370.6	2171.6	606.4	305.6	239.3	199.2	184.1	191.9	191.3	186.0	185.6
62.5°	2933.8	1748.7	470.3	271.6	223.1	191.3	179.9	191.3	197.1	195.6	195.0
65°	2261.2	1245.5	359.2	235.1	201.2	178.4	168.9	179.3	187.1	189.3	188.7
67.5°	1467.7	763.3	276.9	200.7	176.7	163.2	154.9	159.4	161.1	161.1	160.1
70°	721.6	410.9	220.5	168.9	151.8	147.1	142.3	139.7	137.1	135.0	135.0
72.5°	356.1	268.6	181.5	142.8	130.9	128.7	127.6	124.7	122.4	120.0	118.8
75°	263.4	218.5	154.2	120.5	112.6	110.5	112.6	110.0	109.6	107.3	106.4
77.5°	216.3	186.0	132.9	103.2	96.5	92.9	95.8	96.5	96.9	93.9	92.9
80°	175.7	157.5	111.0	85.5	79.2	76.6	78.7	83.0	83.9	79.2	77.2
82.5°	126.8	128.7	89.7	66.7	61.5	59.5	63.6	68.8	69.9	63.2	61.5
85°	106.4	107.3	68.8	47.4	42.2	39.0	45.9	51.2	54.7	48.0	46.4
87.5°	44.3	63.2	39.6	26.6	23.4	20.3	24.6	27.0	32.9	30.3	29.7
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)