

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: P269081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269081
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: GLEON-AF-02-LED-E1-SL4-7027
Description: GALLEON AREA AND ROADWAY 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: 10054.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

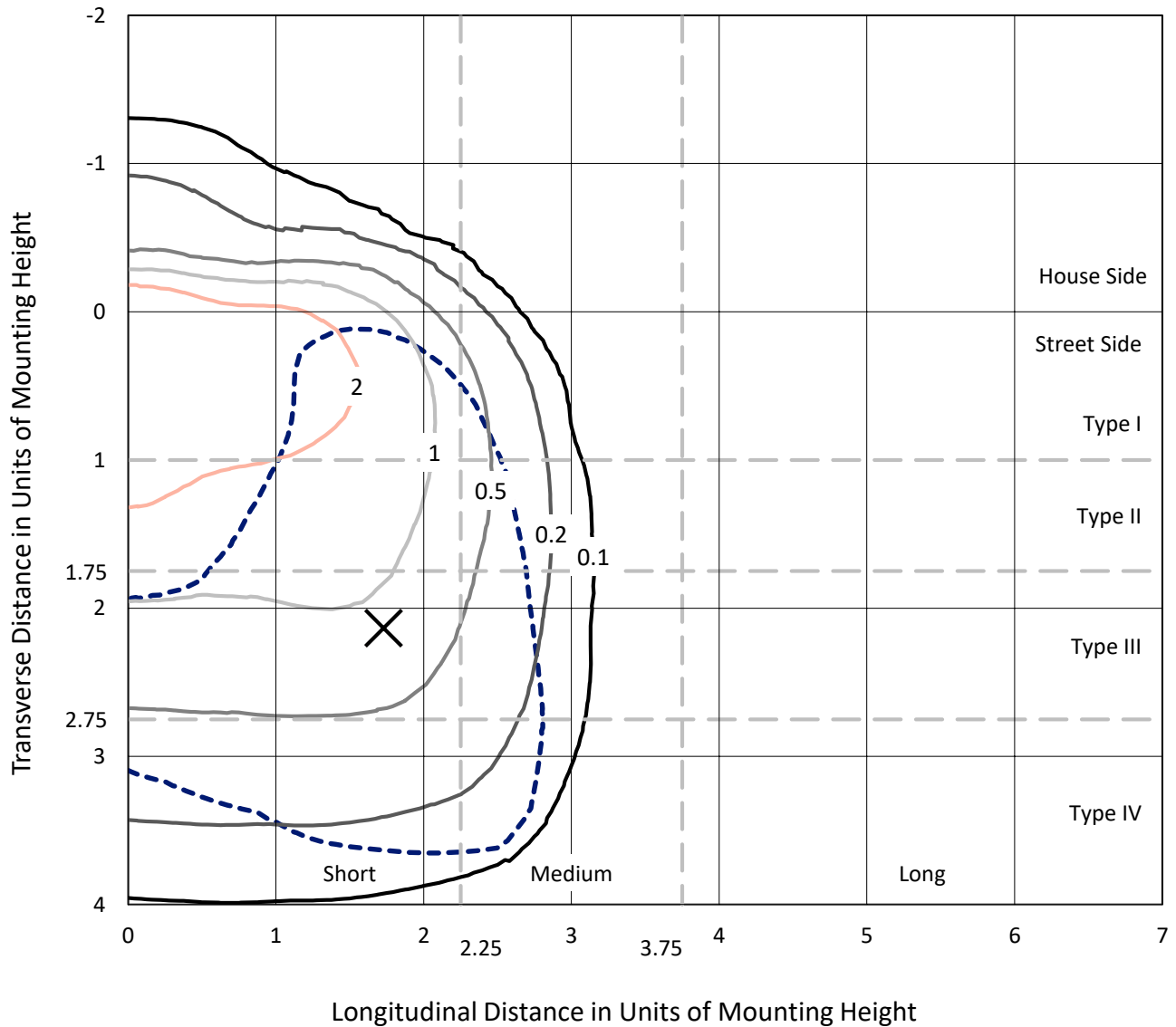
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

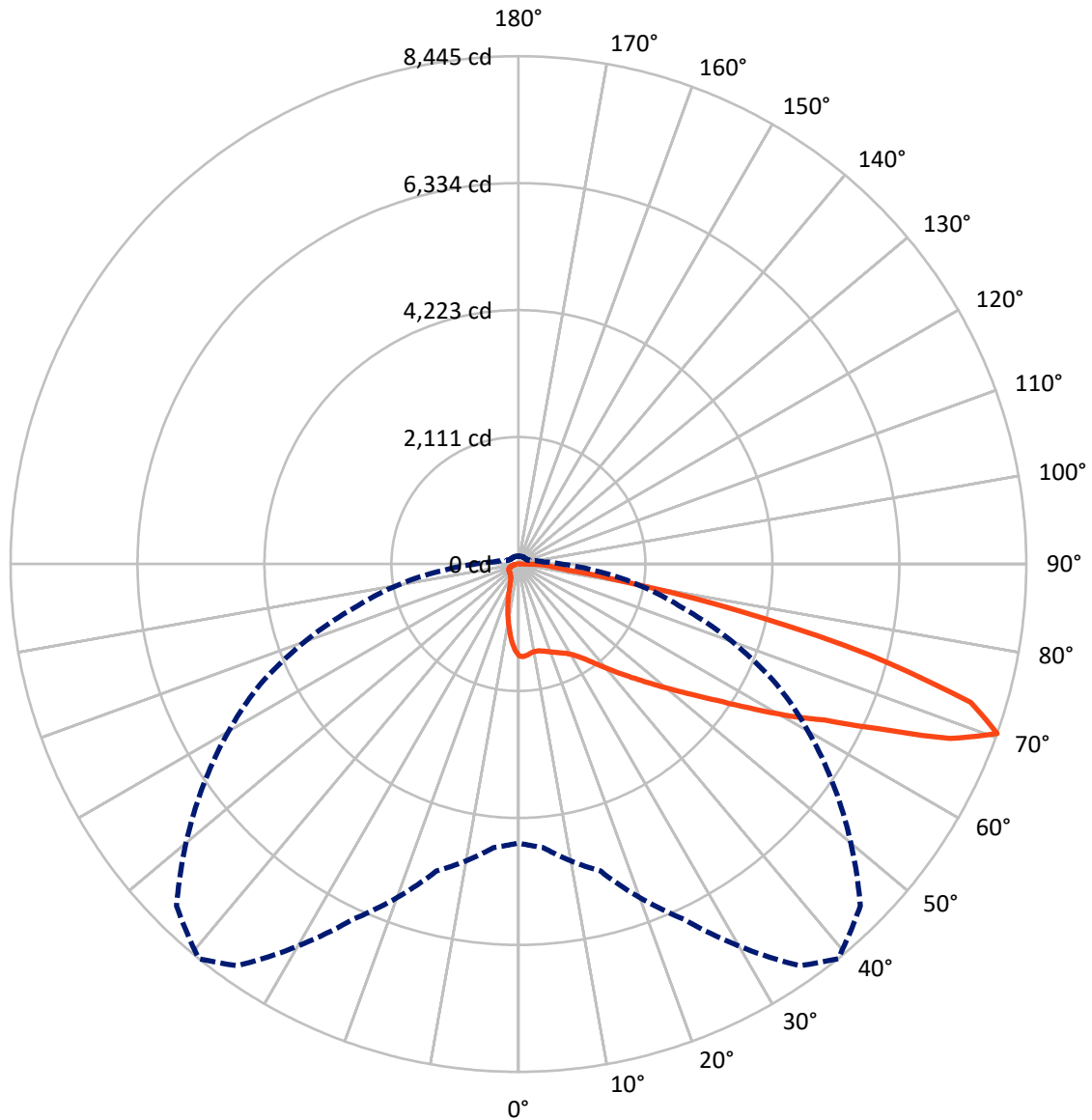
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	1143.5	0.0	1143.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8910.8	0.0	8910.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	10054.3	0.0	10054.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.3
10°-20°	327.4	3.3
20°-30°	509.8	5.1
30°-40°	794.2	7.9
40°-50°	1333.4	13.3
50°-60°	2118.1	21.1
60°-70°	2825.4	28.1
70°-80°	1706.2	17.0
80°-90°	308.8	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°	10054.3	100.0
0°-180°	10054.3	100.0



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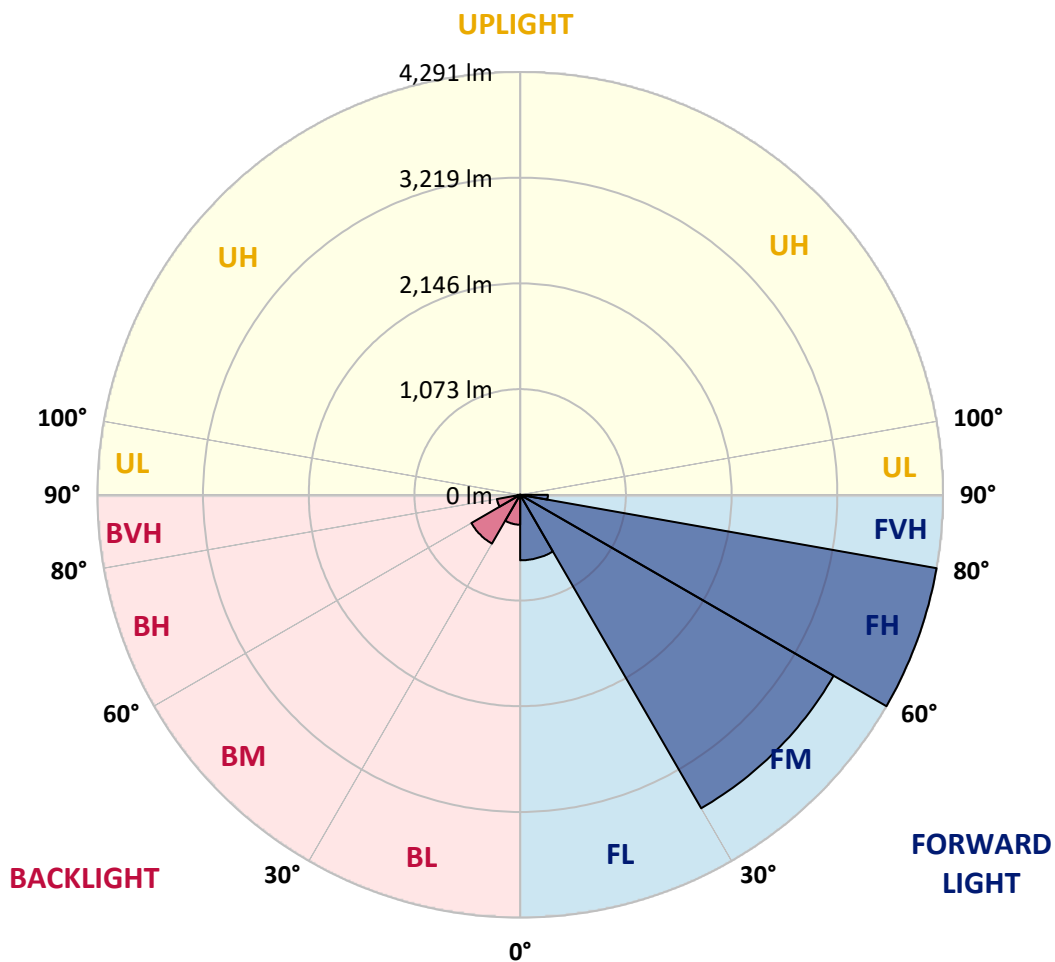
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.9	6.6			
FM	(30°-60°)	3673.5	36.5			
FH	(60°-80°)	4291.5	42.7			G2/5000
FVH	(80°-90°)	281.0	2.8			G3/500
BL	(0°-30°)	303.4	3.0	B1/500		
BM	(30°-60°)	572.3	5.7	B1/1000		
BH	(60°-80°)	240.1	2.4	B1/500		G1/500
BVH	(80°-90°)	27.8	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°	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1556.0	1555.5	1551.5	1548.4	1545.9	1544.7	1546.8	1539.2	1532.5	1524.3	1515.7
5°	1544.2	1543.7	1537.1	1531.0	1524.9	1522.8	1522.3	1508.6	1500.3	1488.0	1471.8
7.5°	1531.5	1528.9	1520.2	1510.1	1499.4	1494.2	1489.1	1471.2	1462.0	1449.8	1430.8
10°	1518.2	1515.1	1506.9	1496.8	1486.5	1478.9	1470.2	1452.7	1443.0	1433.9	1411.9
12.5°	1504.4	1501.8	1499.8	1495.1	1488.0	1481.5	1474.7	1459.9	1449.8	1438.9	1413.5
15°	1502.3	1501.3	1506.0	1509.1	1504.9	1500.9	1493.7	1480.9	1470.2	1459.4	1426.1
17.5°	1518.8	1518.2	1530.0	1538.2	1536.1	1528.9	1519.3	1504.9	1496.2	1487.1	1445.6
20°	1554.4	1557.0	1571.3	1582.2	1571.9	1561.7	1545.9	1526.0	1521.3	1517.1	1465.6
22.5°	1622.0	1624.6	1634.7	1638.9	1612.3	1597.5	1575.4	1549.9	1546.8	1549.9	1489.6
25°	1727.4	1724.7	1723.2	1707.9	1659.3	1636.4	1608.1	1581.6	1583.2	1596.9	1523.3
27.5°	1866.9	1853.1	1831.6	1785.7	1708.3	1682.9	1648.6	1624.0	1633.7	1660.3	1573.9
30°	2011.6	1996.2	1946.5	1871.4	1772.7	1744.7	1706.3	1678.8	1704.3	1746.2	1641.5
32.5°	2145.4	2143.4	2070.9	1974.1	1861.7	1837.3	1798.9	1767.7	1809.0	1873.0	1742.6
35°	2291.7	2296.2	2209.3	2093.3	1981.9	1956.2	1928.8	1905.1	1960.5	2048.3	1889.3
37.5°	2448.2	2457.3	2354.5	2223.7	2118.8	2108.1	2091.8	2081.6	2166.9	2288.6	2094.3
40°	2657.1	2647.9	2505.4	2370.8	2287.1	2286.5	2281.4	2293.7	2435.8	2602.4	2357.6
42.5°	2881.0	2853.9	2665.4	2528.8	2471.5	2488.9	2499.2	2549.3	2759.4	2983.8	2678.6
45°	3122.2	3061.6	2831.5	2696.1	2676.6	2713.4	2748.2	2857.0	3140.2	3417.8	3030.3
47.5°	3315.0	3256.3	3003.3	2871.3	2913.7	2969.4	3036.5	3208.7	3566.5	3866.0	3377.4
50°	3466.9	3428.6	3176.4	3075.7	3175.0	3260.8	3370.3	3607.0	4010.3	4302.6	3699.0
52.5°	3614.2	3585.4	3351.3	3285.5	3481.7	3600.2	3749.0	4034.3	4465.1	4732.0	3969.3
55°	3747.0	3726.4	3539.4	3546.6	3842.6	3997.0	4184.0	4520.9	4961.1	5114.9	4198.4
57.5°	3896.8	3870.6	3754.1	3874.3	4306.3	4506.5	4750.0	5067.9	5426.2	5455.3	4372.7
60°	4047.6	4025.0	3992.3	4252.5	4895.1	5105.6	5336.2	5598.0	5898.0	5719.7	4362.4
62.5°	4178.5	4181.0	4238.7	4649.7	5471.8	5715.6	5996.7	6255.3	6324.8	5765.6	4039.9
65°	4400.3	4440.6	4612.9	5212.1	6283.5	6609.5	6954.7	6913.3	6443.0	5335.8	3348.3
67.5°	4664.1	4735.1	5084.2	5961.4	7309.4	7742.4	7875.8	7062.0	5970.1	4337.3	2386.7
70°	4637.5	4735.1	5287.8	6520.2	8155.0	8445.2	8040.4	6391.4	4740.7	2833.6	1267.8
72.5°	4118.1	4257.6	4873.1	6264.1	7888.6	7863.0	6980.2	4764.8	2816.6	1138.0	495.3
75°	3138.7	3279.7	3809.4	4948.9	6235.0	6020.3	4952.9	2632.2	1069.0	451.8	312.3
77.5°	1805.6	1914.8	2323.8	3035.0	3955.5	3735.2	2756.8	1170.6	520.4	314.9	243.8
80°	1008.1	1069.0	1317.4	1539.7	1938.5	1776.8	1233.6	727.4	388.4	228.4	188.1
82.5°	796.9	851.1	1065.3	971.2	885.4	816.9	708.6	647.7	310.3	144.2	112.5
85°	696.2	747.8	901.7	764.7	604.6	554.7	575.6	637.4	241.3	86.9	96.1
87.5°	645.2	714.2	803.5	589.4	470.8	417.2	531.1	698.8	77.8	54.2	38.8
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°	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1508.0	1499.8	1486.5	1474.7	1456.3	1446.6	1435.9	1428.2	1422.0	1416.9	1425.3
5°	1461.5	1446.1	1418.1	1387.9	1352.0	1323.9	1300.4	1278.5	1263.1	1253.0	1260.1
7.5°	1417.5	1392.5	1348.4	1293.7	1232.5	1180.4	1137.3	1099.5	1073.5	1056.6	1063.2
10°	1392.5	1361.3	1293.3	1207.4	1117.0	1035.7	968.3	910.0	869.5	846.6	850.1
12.5°	1386.4	1345.9	1251.9	1133.8	1010.1	897.1	802.0	721.2	664.6	634.9	635.9
15°	1390.9	1339.4	1213.0	1063.2	906.8	764.2	645.6	547.4	481.5	447.7	447.3
17.5°	1398.7	1334.3	1172.2	987.1	802.0	636.4	503.9	407.9	349.6	322.5	320.5
20°	1406.7	1326.0	1126.1	904.9	693.1	517.9	394.6	319.4	282.6	267.9	266.8
22.5°	1418.6	1318.8	1078.7	817.8	586.4	421.8	324.6	274.1	254.6	246.9	245.9
25°	1437.5	1315.3	1028.0	727.4	490.3	352.8	282.6	251.4	240.2	235.1	234.6
27.5°	1469.2	1320.4	980.5	639.6	412.1	306.2	259.3	240.2	232.1	227.5	226.9
30°	1510.1	1336.1	930.4	556.2	351.1	274.5	244.9	232.7	226.0	221.3	221.3
32.5°	1578.1	1362.8	877.7	484.0	307.7	252.6	234.1	226.0	220.4	216.8	216.2
35°	1678.3	1412.9	828.6	424.3	276.6	236.7	224.9	218.7	214.7	212.7	212.7
37.5°	1823.9	1492.2	785.2	381.3	257.6	226.0	216.2	211.6	209.0	209.0	209.0
40°	2019.7	1601.6	749.9	352.8	246.9	218.3	209.6	206.0	204.5	205.1	205.1
42.5°	2261.6	1743.7	726.4	332.8	241.9	213.6	205.1	201.8	200.4	199.9	200.4
45°	2537.1	1905.1	723.9	318.0	236.7	210.7	201.8	198.9	195.8	193.8	193.8
47.5°	2804.9	2069.2	744.8	312.8	231.0	207.0	199.3	196.3	191.7	187.0	187.0
50°	3041.5	2208.8	772.9	314.9	229.0	201.8	195.3	193.8	186.6	181.5	181.0
52.5°	3229.6	2316.2	795.9	321.1	231.0	198.3	190.1	190.7	183.1	177.3	176.8
55°	3380.4	2386.7	789.8	327.2	235.6	196.3	185.6	186.6	180.5	174.8	174.8
57.5°	3446.3	2360.7	721.8	322.0	239.2	196.8	181.9	186.0	181.0	175.9	175.9
60°	3304.9	2129.2	594.5	299.6	234.6	195.3	180.5	188.1	187.6	182.4	181.9
62.5°	2876.5	1714.5	461.1	266.3	218.7	187.6	176.3	187.6	193.2	191.7	191.2
65°	2216.9	1221.2	352.2	230.5	197.3	174.8	165.6	175.9	183.6	185.6	185.1
67.5°	1438.9	748.4	271.5	196.8	173.4	160.0	151.9	156.5	157.9	157.9	156.9
70°	707.4	402.8	216.2	165.6	148.8	144.2	139.5	137.0	134.4	132.4	132.4
72.5°	349.1	263.3	177.9	140.0	128.3	126.2	125.3	122.2	120.2	117.6	116.5
75°	258.2	214.2	151.4	118.0	110.4	108.3	110.4	107.8	107.3	105.3	104.3
77.5°	212.1	182.4	130.3	101.1	94.6	91.0	94.1	94.6	95.1	91.9	91.0
80°	172.2	154.4	108.9	83.8	77.8	75.2	77.2	81.2	82.4	77.8	75.6
82.5°	124.2	126.2	87.9	65.4	60.4	58.3	62.3	67.5	68.5	61.9	60.4
85°	104.3	105.3	67.5	46.5	41.4	38.4	44.9	50.0	53.7	47.0	45.5
87.5°	43.5	61.9	38.8	26.1	22.9	19.9	24.1	26.6	32.2	29.6	29.1
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)