

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: P200470

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200470
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-SL4-7060-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5700K, 800mA 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: 9537 lumens
Efficiency: N/A
Efficacy: 110.9 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): 86
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

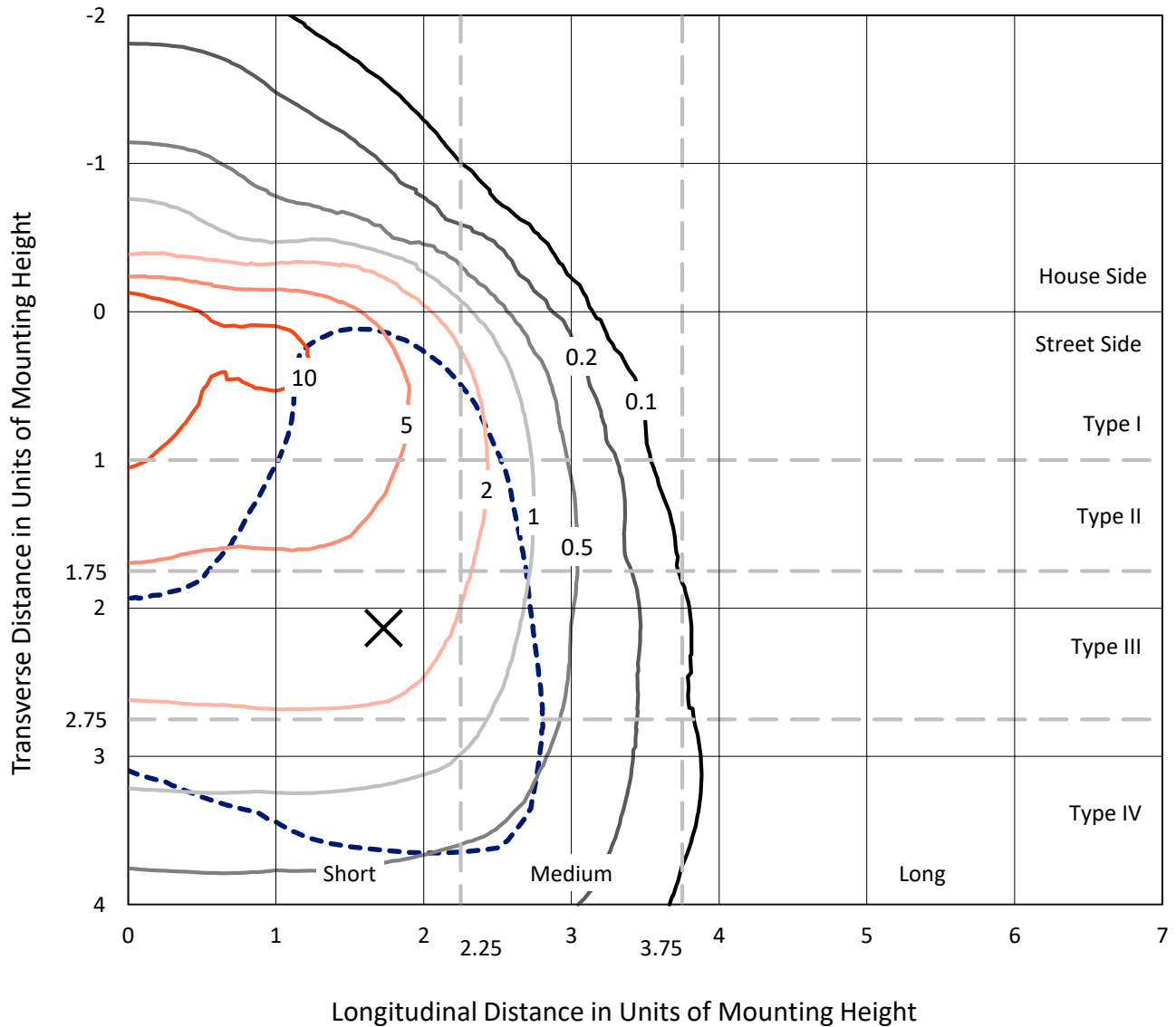


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

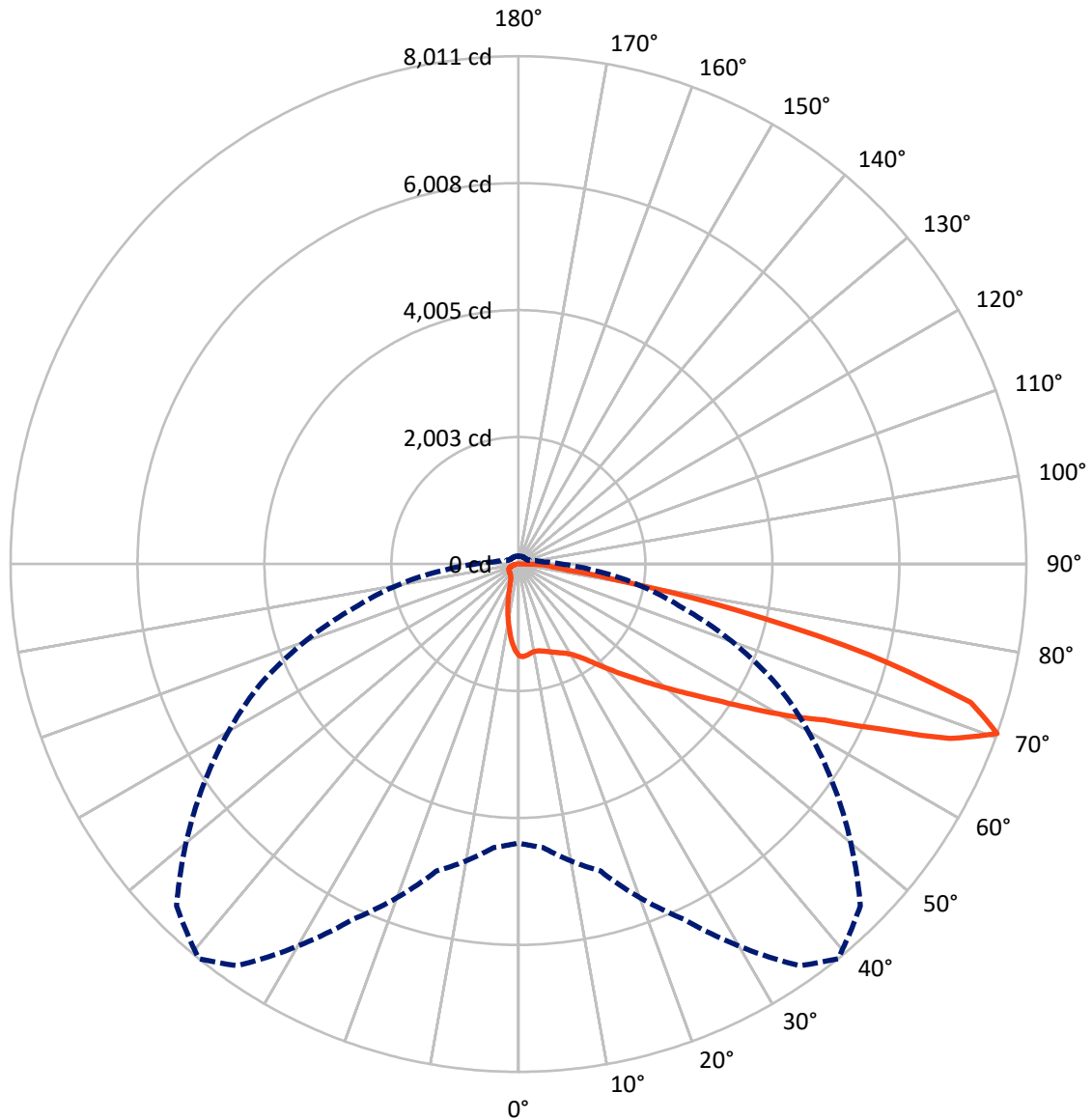


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Semi-Cutoff

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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	1084.7	0.0	1084.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8452.3	0.0	8452.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	9537.0	0.0	9537.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.3
10°-20°	310.6	3.3
20°-30°	483.6	5.1
30°-40°	753.4	7.9
40°-50°	1264.7	13.3
50°-60°	2009.2	21.1
60°-70°	2680.0	28.1
70°-80°	1618.4	17.0
80°-90°	292.9	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°	9537.0	100.0
0°-180°	9537.0	100.0



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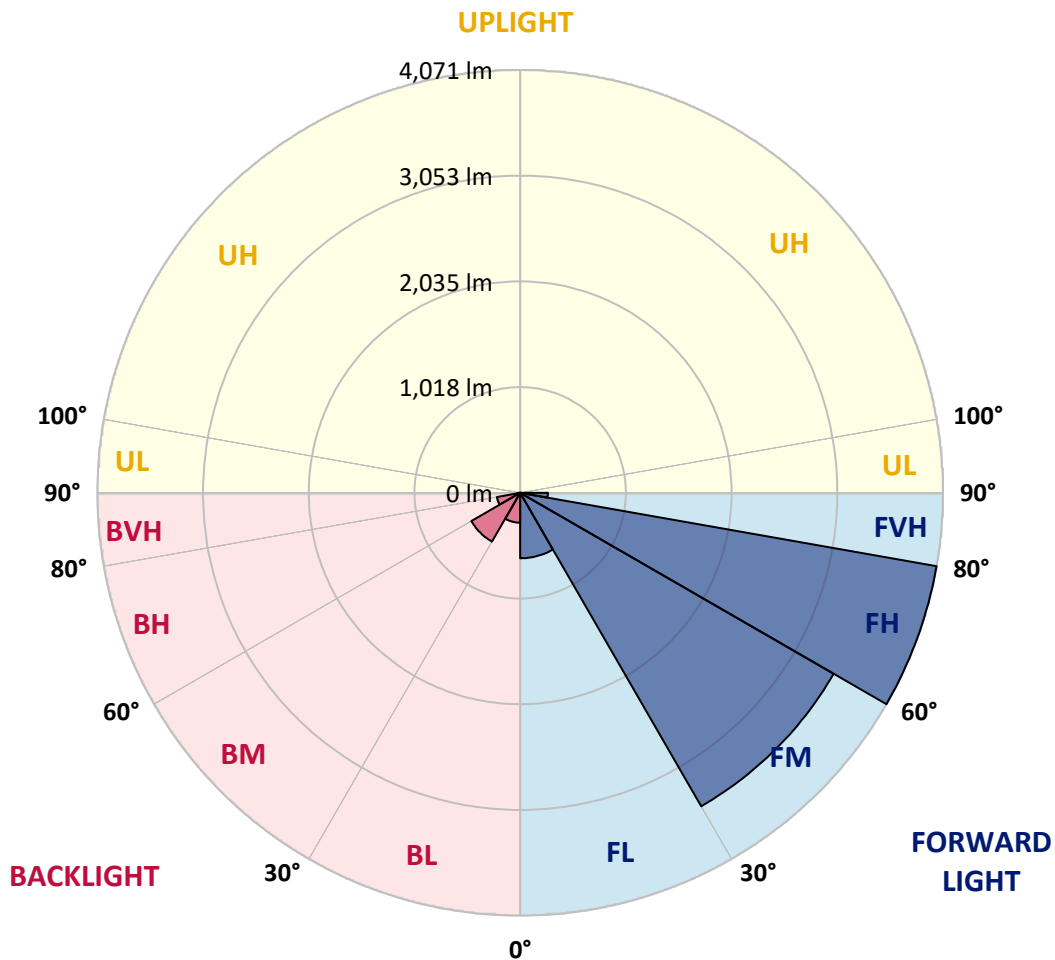
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	630.7	6.6			
FM	(30°-60°)	3484.4	36.5			
FH	(60°-80°)	4070.7	42.7			G2/5000
FVH	(80°-90°)	266.5	2.8			G3/500
BL	(0°-30°)	287.7	3.0	B1/500		
BM	(30°-60°)	542.8	5.7	B1/1000		
BH	(60°-80°)	227.7	2.4	B1/500		G1/500
BVH	(80°-90°)	26.4	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°	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9
2.5°	1476.0	1475.5	1471.6	1468.7	1466.3	1465.3	1467.3	1460.0	1453.7	1445.9	1437.7
5°	1464.8	1464.4	1458.0	1452.2	1446.4	1444.5	1444.0	1430.9	1423.1	1411.5	1396.0
7.5°	1452.7	1450.3	1442.0	1432.3	1422.2	1417.3	1412.5	1395.5	1386.8	1375.1	1357.2
10°	1440.1	1437.2	1429.4	1419.7	1410.0	1402.8	1394.5	1378.0	1368.8	1360.1	1339.3
12.5°	1427.0	1424.6	1422.7	1418.3	1411.5	1405.2	1398.9	1384.8	1375.1	1364.9	1340.7
15°	1425.1	1424.1	1428.5	1431.4	1427.5	1423.6	1416.8	1404.7	1394.5	1384.3	1352.8
17.5°	1440.6	1440.1	1451.3	1459.0	1457.1	1450.3	1441.1	1427.5	1419.3	1410.5	1371.3
20°	1474.5	1477.0	1490.5	1500.7	1491.0	1481.3	1466.3	1447.4	1443.0	1439.1	1390.2
22.5°	1538.5	1541.0	1550.7	1554.5	1529.3	1515.3	1494.4	1470.2	1467.3	1470.2	1413.0
25°	1638.4	1636.0	1634.5	1620.0	1573.9	1552.1	1525.4	1500.2	1501.7	1514.8	1445.0
27.5°	1770.8	1757.7	1737.3	1693.7	1620.5	1596.2	1563.8	1540.5	1549.7	1574.9	1493.0
30°	1908.0	1893.5	1846.4	1775.2	1681.6	1654.9	1618.5	1592.4	1616.6	1656.4	1557.0
32.5°	2035.1	2033.1	1964.3	1872.6	1765.9	1742.7	1706.3	1676.7	1716.0	1776.6	1653.0
35°	2173.7	2178.1	2095.7	1985.6	1879.9	1855.7	1829.5	1807.2	1859.5	1942.9	1792.1
37.5°	2322.1	2330.8	2233.4	2109.2	2009.8	1999.7	1984.1	1974.4	2055.4	2170.8	1986.6
40°	2520.4	2511.7	2376.4	2248.9	2169.4	2168.9	2164.0	2175.7	2310.5	2468.5	2236.3
42.5°	2732.8	2707.1	2528.2	2398.7	2344.4	2360.9	2370.6	2418.1	2617.4	2830.3	2540.8
45°	2961.7	2904.0	2685.8	2557.3	2538.9	2573.8	2606.7	2710.0	2978.6	3241.9	2874.4
47.5°	3144.5	3088.7	2848.7	2723.6	2763.8	2816.7	2880.2	3043.6	3383.0	3667.2	3203.6
50°	3288.5	3252.1	3013.1	2917.5	3011.6	3093.1	3196.8	3421.3	3803.9	4081.3	3508.6
52.5°	3428.1	3401.0	3178.9	3116.4	3302.5	3415.0	3556.1	3826.7	4235.5	4488.6	3765.1
55°	3554.2	3534.8	3357.3	3364.1	3644.9	3791.3	3968.8	4288.3	4705.8	4851.8	3982.4
57.5°	3696.3	3671.5	3561.0	3674.9	4084.7	4274.7	4505.5	4807.1	5147.0	5174.7	4147.7
60°	3839.3	3818.0	3786.9	4033.8	4643.3	4843.0	5061.7	5310.0	5594.6	5425.4	4138.0
62.5°	3963.4	3965.9	4020.7	4410.5	5190.2	5421.5	5688.2	5933.5	5999.5	5469.0	3832.0
65°	4173.9	4212.2	4375.6	4943.9	5960.2	6269.6	6596.9	6557.6	6111.5	5061.2	3176.0
67.5°	4424.1	4491.5	4822.7	5654.7	6933.4	7344.1	7470.6	6698.7	5663.0	4114.2	2263.9
70°	4398.9	4491.5	5015.6	6184.7	7735.4	8010.8	7626.7	6062.5	4496.8	2687.7	1202.5
72.5°	3906.2	4038.6	4622.4	5941.8	7482.7	7458.5	6621.1	4519.6	2671.7	1079.4	469.9
75°	2977.2	3111.0	3613.4	4694.2	5914.1	5710.5	4698.0	2496.7	1013.9	428.6	296.3
77.5°	1712.6	1816.4	2204.3	2878.8	3752.0	3543.0	2615.0	1110.4	493.6	298.7	231.3
80°	956.2	1013.9	1249.5	1460.5	1838.7	1685.5	1170.0	690.0	368.5	216.7	178.4
82.5°	755.9	807.3	1010.5	921.3	839.8	774.8	672.0	614.3	294.3	136.7	106.7
85°	660.4	709.4	855.3	725.4	573.6	526.1	546.0	604.7	228.9	82.4	91.2
87.5°	611.9	677.4	762.2	559.1	446.6	395.7	503.8	662.8	73.7	51.4	36.9
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°	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9	1447.9
2.5°	1430.4	1422.7	1410.0	1398.9	1381.4	1372.2	1362.0	1354.8	1348.9	1344.1	1351.9
5°	1386.3	1371.7	1345.1	1316.5	1282.5	1255.9	1233.5	1212.7	1198.1	1188.5	1195.2
7.5°	1344.6	1320.8	1279.1	1227.2	1169.1	1119.6	1078.9	1043.0	1018.3	1002.3	1008.6
10°	1320.8	1291.2	1226.8	1145.3	1059.5	982.4	918.4	863.1	824.8	803.0	806.4
12.5°	1315.0	1276.7	1187.5	1075.5	958.1	851.0	760.8	684.2	630.3	602.2	603.2
15°	1319.4	1270.4	1150.6	1008.6	860.2	724.9	612.4	519.3	456.8	424.8	424.3
17.5°	1326.6	1265.5	1111.8	936.3	760.8	603.7	478.1	386.9	331.7	306.0	304.0
20°	1334.4	1257.8	1068.2	858.2	657.5	491.2	374.3	303.1	268.1	254.1	253.1
22.5°	1345.6	1251.0	1023.1	775.8	556.2	400.0	307.9	259.9	241.5	234.2	233.2
25°	1363.5	1247.6	975.1	690.0	465.0	334.6	268.1	238.6	227.9	223.0	222.6
27.5°	1393.6	1252.5	930.0	606.6	390.8	290.4	245.8	227.9	220.1	215.8	215.3
30°	1432.3	1267.5	882.5	527.6	333.1	260.4	232.3	220.6	214.3	210.0	210.0
32.5°	1496.8	1292.7	832.5	459.2	291.9	239.5	222.1	214.3	209.0	205.6	205.1
35°	1591.9	1340.2	786.0	402.5	262.3	224.5	213.3	207.5	203.7	201.7	201.7
37.5°	1730.1	1415.4	744.8	361.7	244.4	214.3	205.1	200.7	198.3	198.3	198.3
40°	1915.8	1519.1	711.3	334.6	234.2	207.0	198.8	195.4	194.0	194.4	194.4
42.5°	2145.1	1653.9	689.0	315.7	229.4	202.7	194.4	191.5	190.1	189.6	190.1
45°	2406.5	1807.2	686.6	301.6	224.5	199.8	191.5	188.6	185.7	183.8	183.8
47.5°	2660.6	1962.8	706.5	296.7	219.2	196.4	189.1	186.2	181.8	177.5	177.5
50°	2885.1	2095.2	733.1	298.7	217.2	191.5	185.2	183.8	177.0	172.1	171.6
52.5°	3063.5	2197.0	755.0	304.5	219.2	188.1	180.4	180.9	173.6	168.3	167.8
55°	3206.5	2263.9	749.1	310.3	223.5	186.2	176.0	177.0	171.2	165.8	165.8
57.5°	3269.1	2239.2	684.7	305.5	226.9	186.7	172.6	176.5	171.6	166.8	166.8
60°	3134.8	2019.5	563.9	284.1	222.6	185.2	171.2	178.4	178.0	173.1	172.6
62.5°	2728.4	1626.3	437.4	252.6	207.5	178.0	167.3	178.0	183.3	181.8	181.3
65°	2102.9	1158.4	334.1	218.7	187.2	165.8	157.1	166.8	174.1	176.0	175.5
67.5°	1364.9	709.9	257.5	186.7	164.4	151.8	144.0	148.4	149.8	149.8	148.9
70°	671.1	382.1	205.1	157.1	141.1	136.7	132.4	129.9	127.5	125.6	125.6
72.5°	331.2	249.7	168.7	132.9	121.7	119.8	118.8	115.9	113.9	111.5	110.6
75°	244.9	203.2	143.5	112.0	104.7	102.8	104.7	102.3	101.8	99.9	98.9
77.5°	201.2	173.1	123.6	96.0	89.7	86.3	89.2	89.7	90.2	87.3	86.3
80°	163.4	146.4	103.3	79.5	73.7	71.3	73.2	77.1	78.1	73.7	71.8
82.5°	117.8	119.8	83.4	62.1	57.2	55.3	59.2	64.0	65.0	58.7	57.2
85°	98.9	99.9	64.0	44.1	39.3	36.4	42.7	47.5	50.9	44.6	43.2
87.5°	41.2	58.7	36.9	24.7	21.8	18.9	22.8	25.2	30.5	28.1	27.6
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)