

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: P200598

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL2-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8023 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

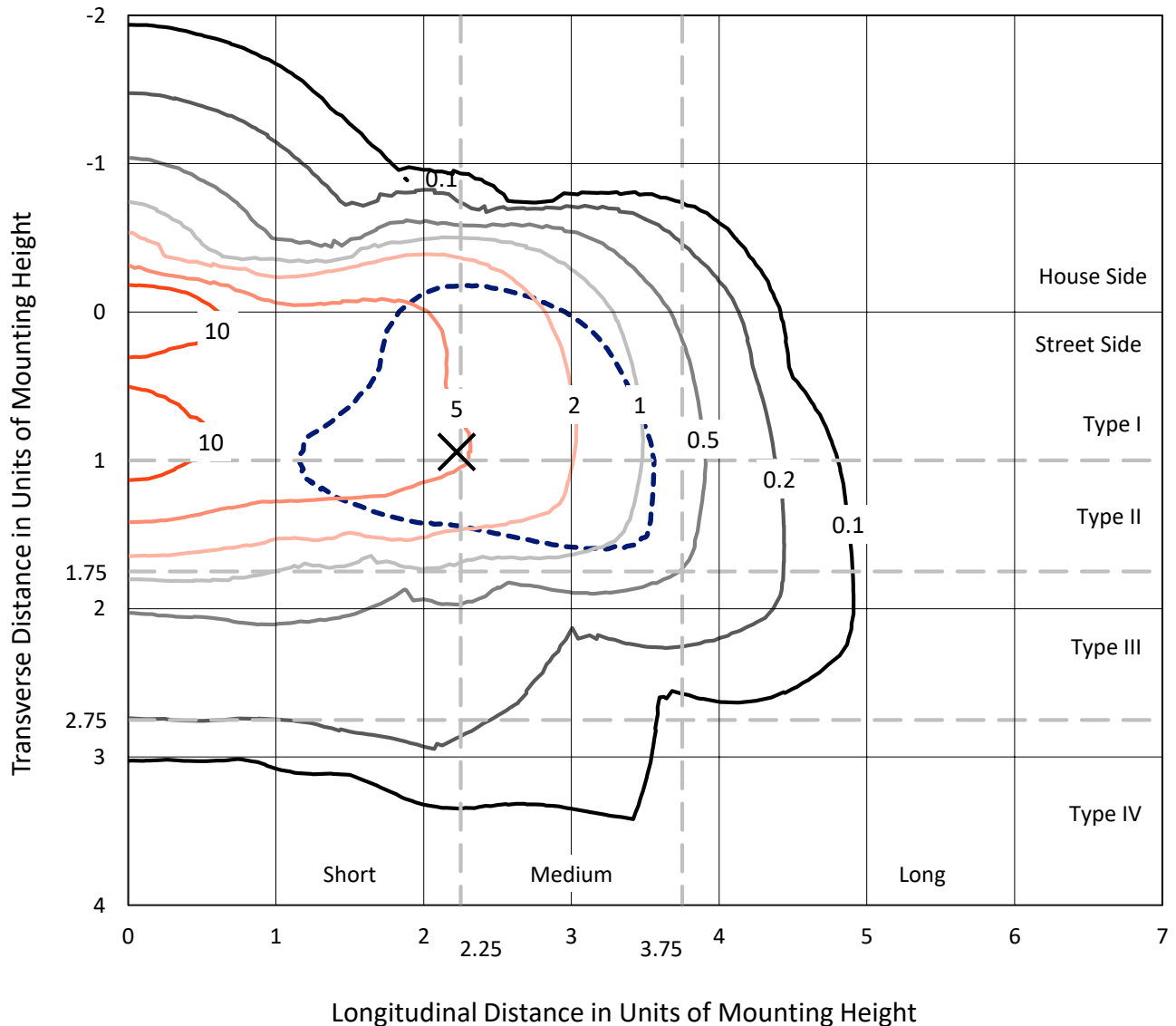
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

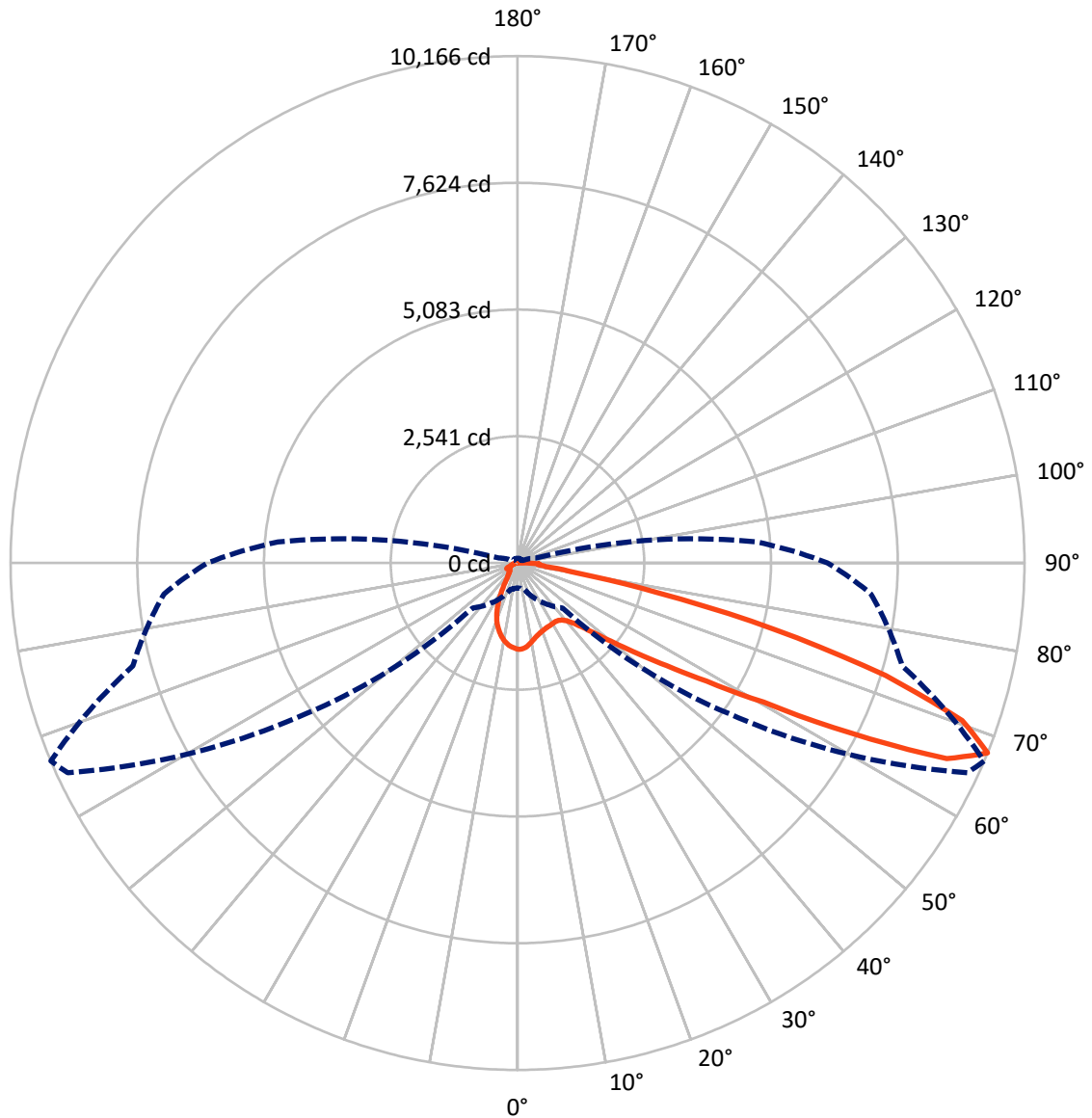
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1329.3	0.0	1329.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6693.7	0.0	6693.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	8023.0	0.0	8023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.8
10°-20°	341.6	4.3
20°-30°	463.1	5.8
30°-40°	658.3	8.2
40°-50°	1101.4	13.7
50°-60°	1742.4	21.7
60°-70°	2219.6	27.7
70°-80°	1162.6	14.5
80°-90°	186.5	2.3
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°	8023.0	100.0
0°-180°	8023.0	100.0

Coefficient of Utilization



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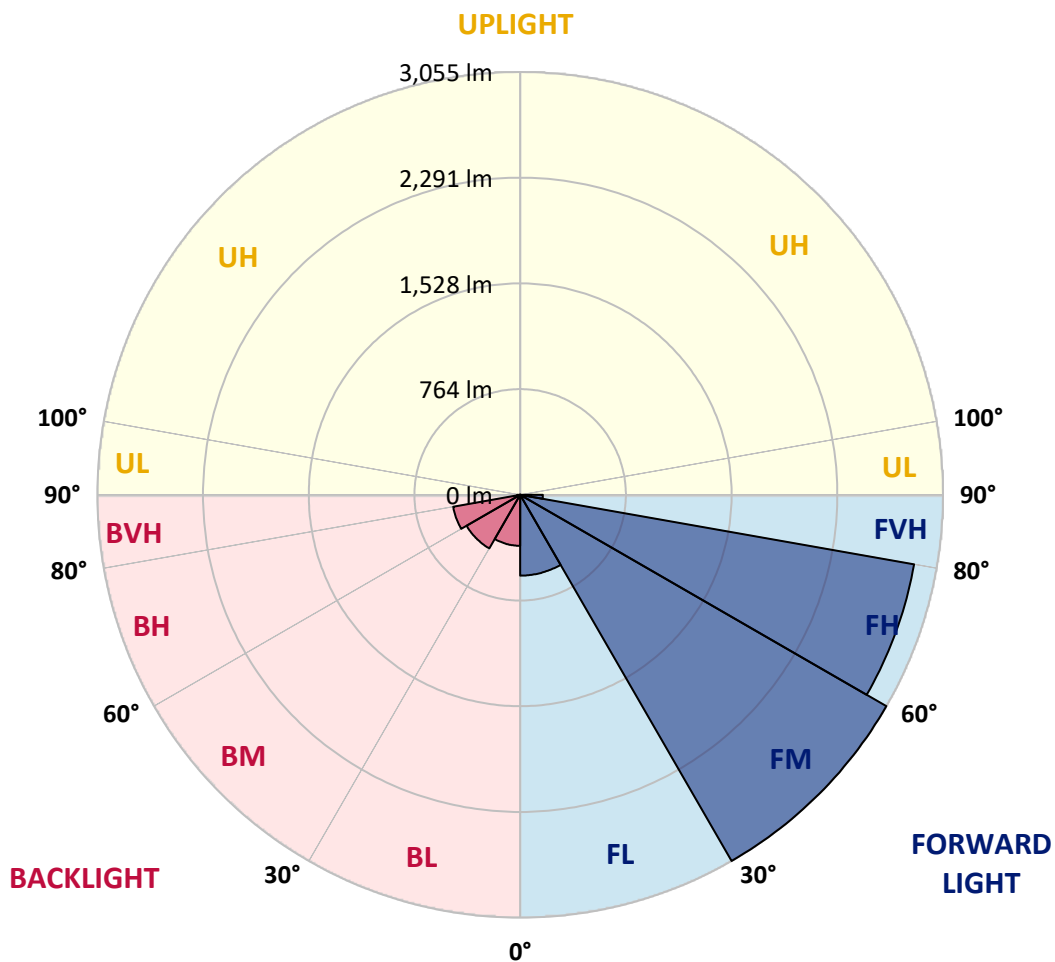
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.9	7.3			
FM (30°-60°)	3055.3	38.1			
FH (60°-80°)	2890.5	36.0			G2/5000
FVH (80°-90°)	164.0	2.0			G2/225
BL (0°-30°)	368.5	4.6	B1/500		
BM (30°-60°)	446.7	5.6	B1/1000		
BH (60°-80°)	491.7	6.1	B1/500		G1/500
BVH (80°-90°)	22.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1659.3	1662.1	1670.8	1676.3	1701.3	1711.9	1719.5	1727.0	1728.2	1731.7	1728.2
5°	1485.2	1491.2	1507.4	1525.6	1573.9	1611.8	1651.8	1693.4	1700.9	1727.8	1735.3
7.5°	1350.3	1348.7	1362.2	1384.0	1433.4	1486.0	1556.1	1638.8	1655.0	1715.5	1744.8
10°	1251.8	1250.6	1264.9	1287.4	1334.5	1384.4	1463.5	1576.6	1599.6	1696.1	1753.9
12.5°	1179.0	1179.4	1193.7	1218.6	1266.5	1316.7	1397.0	1516.5	1545.8	1673.6	1763.4
15°	1130.7	1133.9	1145.4	1171.9	1218.6	1268.8	1347.6	1471.4	1504.2	1655.8	1774.1
17.5°	1114.5	1119.7	1123.6	1143.0	1183.0	1233.2	1310.4	1438.2	1473.0	1643.5	1783.6
20°	1129.6	1135.5	1128.0	1134.7	1160.0	1204.3	1281.1	1412.0	1447.7	1629.7	1784.7
22.5°	1194.0	1199.6	1177.4	1158.0	1156.5	1183.4	1257.0	1391.5	1428.3	1619.4	1785.1
25°	1307.6	1311.2	1274.0	1228.9	1185.0	1175.9	1239.9	1377.2	1416.4	1610.3	1777.6
27.5°	1446.9	1449.6	1406.9	1340.4	1252.2	1193.7	1234.0	1368.9	1409.7	1602.4	1765.0
30°	1616.2	1629.3	1571.9	1488.0	1359.4	1246.3	1245.9	1364.6	1402.2	1588.9	1740.0
32.5°	1789.5	1795.0	1755.5	1670.4	1503.8	1338.9	1279.1	1367.7	1400.2	1572.7	1708.4
35°	1965.2	1972.3	1946.6	1878.1	1701.3	1474.6	1344.0	1386.3	1412.4	1567.1	1686.2
37.5°	2192.7	2202.1	2166.5	2087.4	1941.4	1658.5	1452.0	1433.0	1450.0	1583.0	1679.5
40°	2552.3	2547.9	2443.9	2326.0	2204.1	1893.9	1606.3	1512.1	1522.0	1634.0	1700.1
42.5°	2970.9	2960.2	2781.0	2595.8	2492.9	2178.8	1810.5	1649.4	1647.5	1734.5	1772.5
45°	3304.8	3296.1	3134.7	2906.4	2824.1	2503.2	2074.4	1854.0	1839.3	1893.9	1906.2
47.5°	3485.6	3486.0	3393.0	3206.7	3204.7	2915.5	2413.4	2149.9	2124.6	2150.3	2137.3
50°	3422.3	3430.6	3420.7	3361.4	3552.1	3455.9	2856.1	2562.6	2511.5	2536.9	2486.6
52.5°	3116.1	3126.8	3185.3	3276.3	3698.1	4109.1	3506.6	3075.3	3016.0	3006.9	2951.1
55°	2573.3	2586.3	2705.8	2953.1	3576.6	4547.9	4532.9	3728.9	3634.4	3548.5	3524.8
57.5°	1773.7	1795.4	1987.7	2354.9	3183.7	4680.5	5755.0	4660.7	4468.4	4168.5	4174.0
60°	999.8	1025.1	1251.8	1585.3	2390.9	4536.4	6684.8	6071.9	5666.0	4894.5	4935.6
62.5°	635.8	663.1	835.2	1101.5	1434.6	3761.0	7065.8	8033.9	7518.4	5789.4	5829.8
65°	514.7	526.6	607.7	909.2	1041.7	2265.8	6776.6	9650.1	9457.8	6925.3	6737.0
67.5°	502.5	506.4	548.4	763.2	999.0	1273.6	5405.3	9952.4	10165.6	7986.0	7114.8
70°	496.5	510.4	618.0	728.4	956.7	1074.2	3248.2	9123.9	9460.6	8263.4	6612.0
72.5°	240.9	240.2	311.0	658.7	1077.7	1114.1	1668.8	7382.3	7720.2	7159.2	5433.4
75°	194.3	177.6	169.7	241.3	1036.2	1150.5	1063.5	5079.7	5324.2	4799.9	3340.0
77.5°	184.4	164.6	150.7	151.1	438.0	1220.2	900.9	2811.4	2882.7	2168.1	915.1
80°	152.7	134.5	124.6	140.5	212.1	1162.0	974.1	1272.4	1167.5	532.5	304.6
82.5°	106.0	96.5	93.8	117.9	169.7	828.1	1132.7	683.7	573.3	266.7	187.9
85°	67.7	57.8	64.1	85.9	132.1	382.2	1166.8	532.9	423.7	169.3	106.0
87.5°	31.3	25.3	31.7	47.5	86.3	131.7	1110.2	598.6	436.4	89.4	66.9
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°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1731.3	1723.8	1717.9	1706.8	1694.5	1682.7	1672.0	1658.5	1654.6	1651.0	1656.6
5°	1736.9	1729.4	1707.6	1673.6	1636.0	1600.8	1565.6	1535.5	1516.9	1506.6	1512.5
7.5°	1745.2	1734.5	1689.4	1626.9	1559.2	1497.5	1433.8	1382.8	1345.2	1327.4	1332.5
10°	1752.7	1732.1	1658.5	1564.8	1465.9	1374.1	1273.6	1190.5	1128.8	1096.3	1104.2
12.5°	1755.9	1723.0	1615.4	1487.2	1351.5	1217.0	1069.0	944.8	856.2	823.7	817.0
15°	1759.0	1712.7	1567.9	1399.0	1213.4	1023.1	815.8	667.1	593.5	577.2	573.7
17.5°	1759.8	1694.9	1514.1	1303.2	1051.6	792.5	557.9	463.3	463.7	489.8	493.0
20°	1751.5	1668.4	1448.8	1184.2	857.8	548.0	383.0	366.8	426.5	491.8	499.7
22.5°	1732.5	1633.2	1374.9	1045.3	635.8	360.8	296.3	314.1	391.3	471.2	480.3
25°	1708.4	1590.5	1287.4	884.3	421.0	258.0	248.5	270.2	322.4	375.9	381.0
27.5°	1675.5	1539.8	1189.3	699.9	273.4	212.5	218.8	233.4	254.8	278.5	280.9
30°	1633.2	1479.3	1084.5	510.4	206.5	191.1	200.2	208.1	217.2	230.7	231.8
32.5°	1584.5	1421.1	976.8	352.5	183.2	180.0	187.1	191.1	198.2	206.5	207.3
35°	1543.8	1365.8	865.3	249.3	173.3	171.7	176.5	178.0	184.8	193.9	194.7
37.5°	1520.5	1320.7	750.1	201.0	166.6	164.2	167.0	167.0	176.5	189.9	191.9
40°	1522.0	1295.7	635.0	181.6	161.0	157.9	158.3	158.3	170.5	185.2	186.3
42.5°	1565.2	1302.1	532.9	174.1	156.7	153.1	151.1	152.3	162.6	172.1	172.9
45°	1666.4	1346.8	437.2	169.3	152.3	151.1	146.8	146.4	150.3	154.7	154.7
47.5°	1832.6	1435.0	372.3	166.2	148.8	148.4	143.2	138.1	137.7	139.3	139.3
50°	2102.8	1586.9	328.8	162.6	146.4	143.2	137.3	129.4	126.6	127.8	127.8
52.5°	2508.0	1857.9	312.2	157.9	141.2	136.1	129.4	121.5	119.1	119.5	119.5
55°	3039.3	2274.2	309.8	152.3	135.7	127.4	121.9	115.9	113.2	113.9	113.9
57.5°	3688.6	2849.8	352.1	143.6	128.2	118.7	115.5	111.6	109.6	110.8	110.4
60°	4477.9	3603.1	522.2	134.5	120.7	110.8	110.8	107.6	106.0	107.2	106.8
62.5°	5387.1	4468.4	734.3	127.8	112.8	104.4	106.0	104.4	102.9	103.7	103.3
65°	6193.4	5032.2	687.6	122.6	104.8	98.5	101.3	100.5	99.3	100.1	99.7
67.5°	6216.7	4823.3	386.1	117.1	97.3	92.6	96.5	96.1	95.3	96.1	95.7
70°	5548.1	4072.7	217.6	106.8	89.4	85.5	91.0	90.6	89.8	91.4	91.0
72.5°	4445.0	2955.5	159.0	94.2	81.5	77.9	84.3	83.9	83.9	86.3	85.1
75°	2557.8	1520.9	127.0	80.7	73.2	70.4	76.0	76.4	77.2	80.3	77.9
77.5°	729.2	474.0	103.7	68.4	62.9	61.7	67.3	68.1	68.4	72.0	68.8
80°	271.0	218.4	85.5	57.4	51.4	51.8	57.0	58.2	58.6	62.1	58.2
82.5°	172.9	144.0	69.2	44.3	40.4	40.0	46.3	47.9	47.9	48.3	45.9
85°	100.9	86.3	52.2	32.0	28.5	27.3	34.4	37.2	36.0	35.2	33.6
87.5°	67.7	59.3	32.0	17.8	15.4	14.6	20.2	22.2	21.4	20.2	19.0
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)