

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: P200247

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-AFL-7050-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5204 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

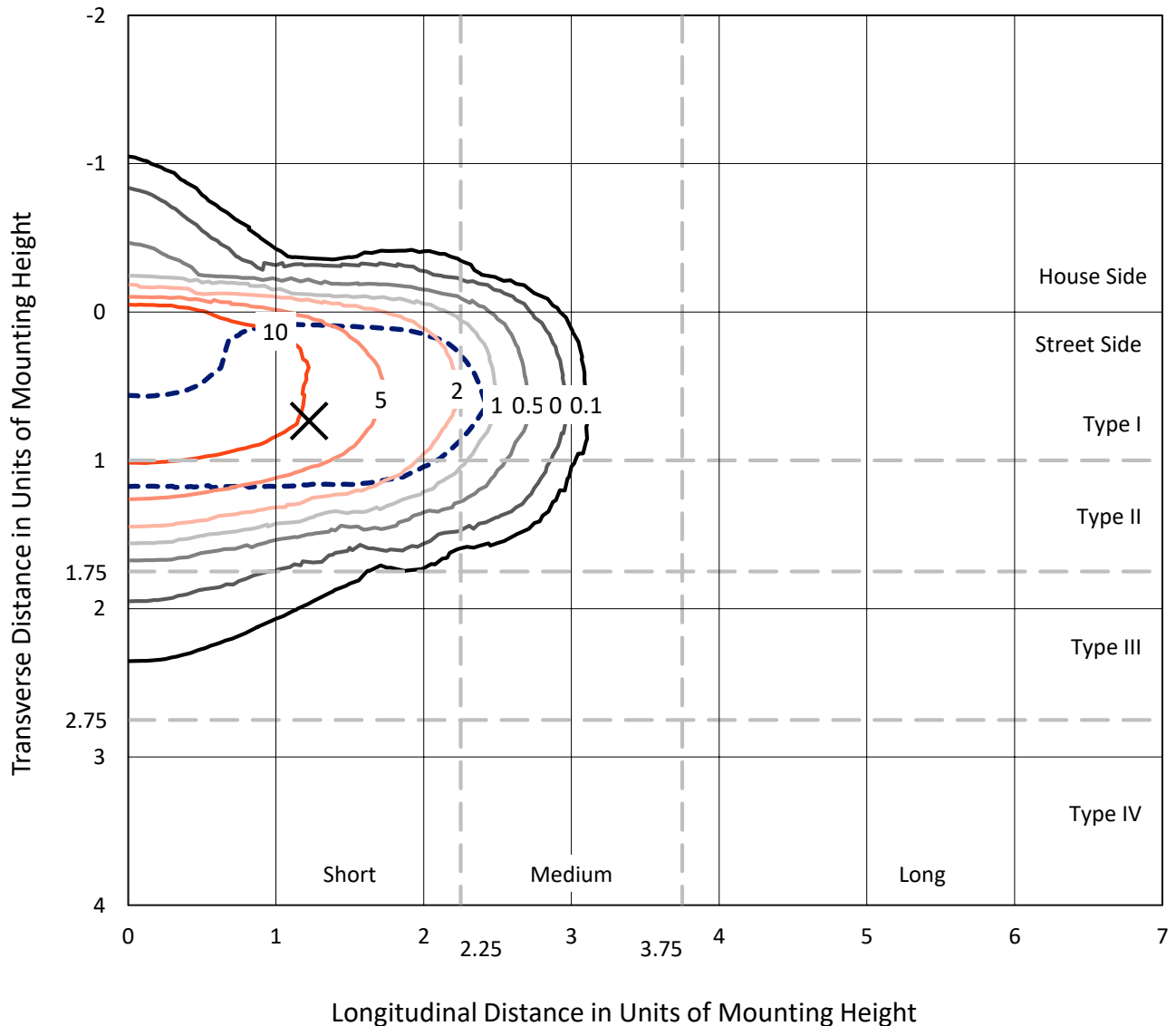


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

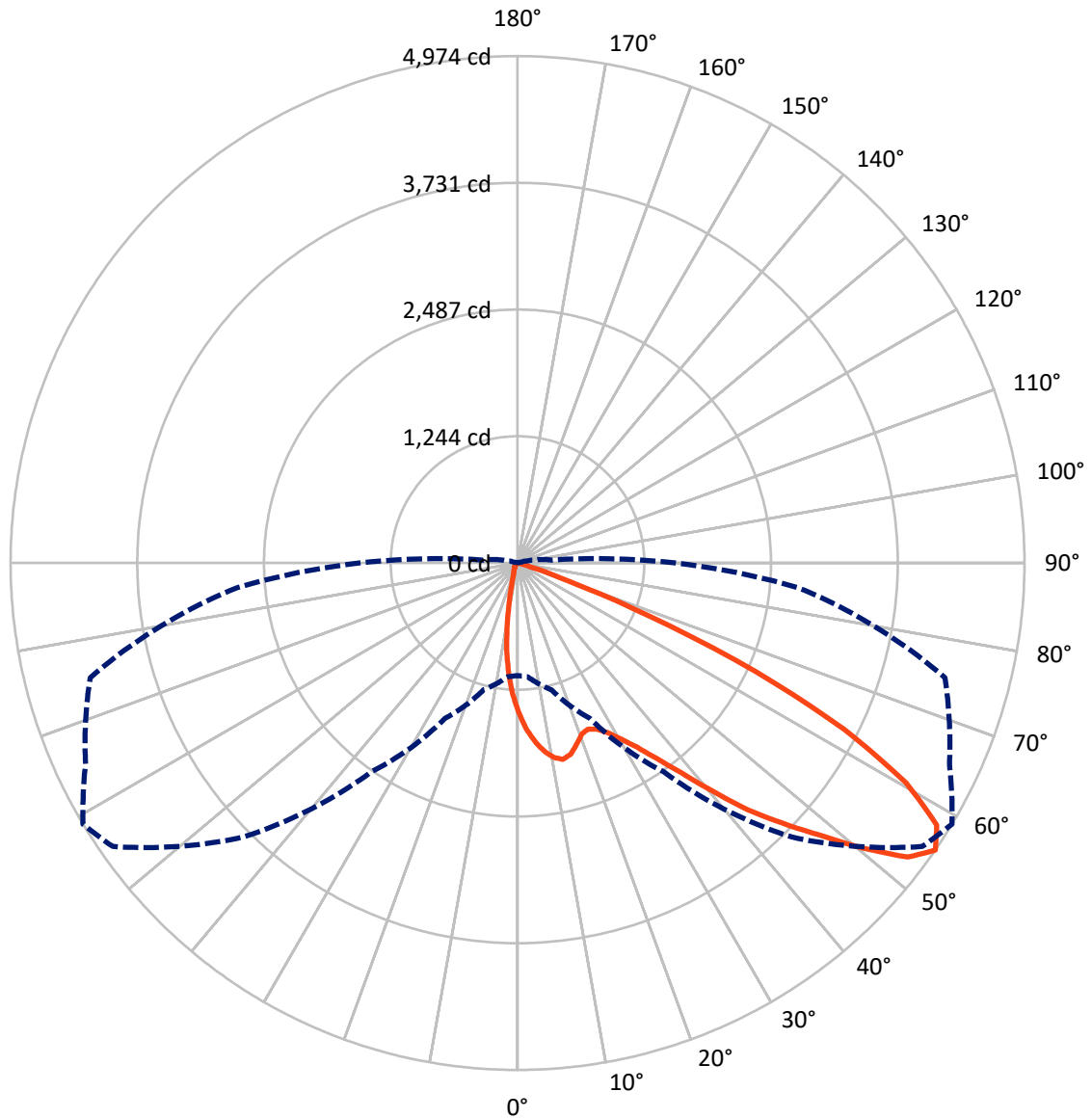


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	290.7	0.0	290.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4913.3	0.0	4913.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	5204.0	0.0	5204.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.4
10°-20°	293.8	5.6
20°-30°	499.9	9.6
30°-40°	859.7	16.5
40°-50°	1327.3	25.5
50°-60°	1334.4	25.6
60°-70°	684.3	13.1
70°-80°	74.2	1.4
80°-90°	7.8	0.1
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°	5204.0	100.0
0°-180°	5204.0	100.0



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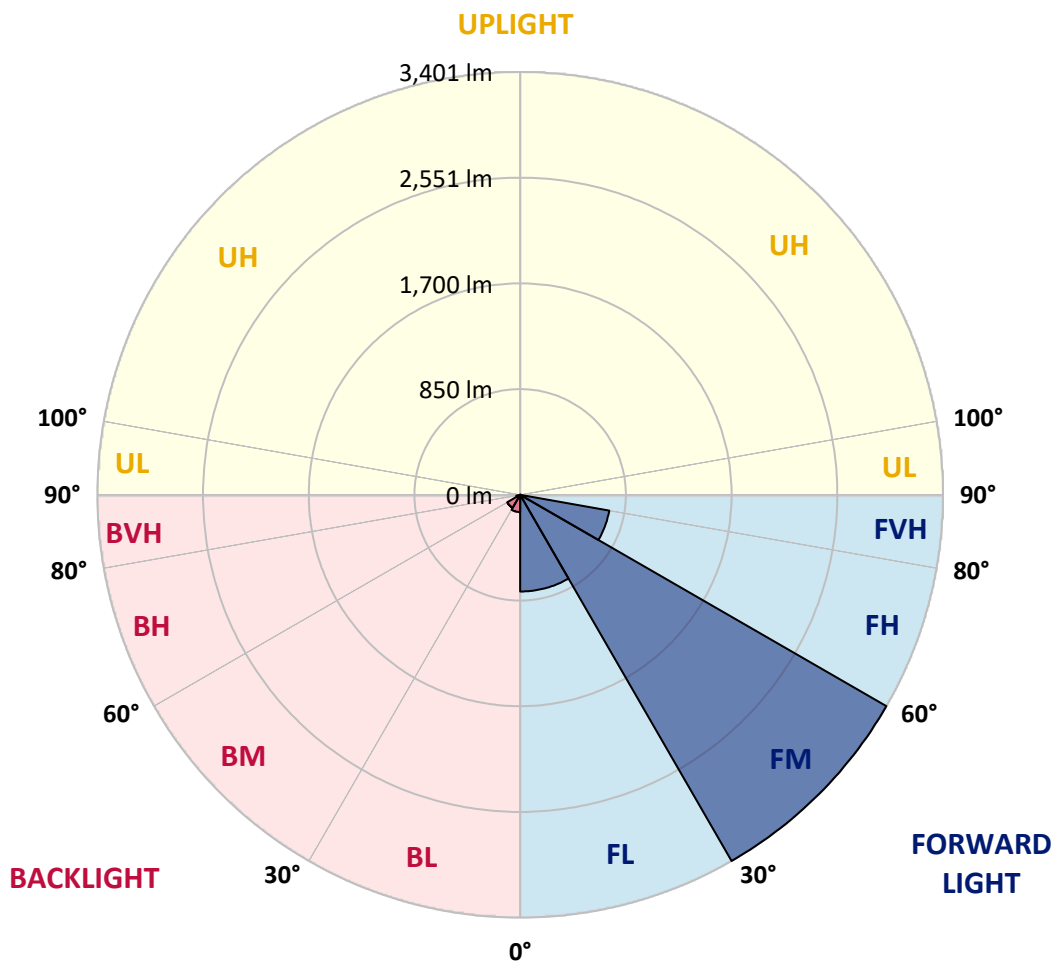
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.7	14.9			
FM	(30°-60°)	3400.8	65.3			
FH	(60°-80°)	727.3	14.0			G1/1800
FVH	(80°-90°)	7.6	0.1			G0/10
BL	(0°-30°)	138.7	2.7	B1/500		
BM	(30°-60°)	120.6	2.3	B0/220		
BH	(60°-80°)	31.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1733.3	1714.9	1709.4	1705.7	1688.8	1667.6	1638.7	1625.2	1597.6	1553.0	1498.4
5°	1892.1	1888.7	1876.4	1869.7	1851.6	1821.5	1775.4	1753.3	1709.4	1634.4	1536.5
7.5°	1822.7	1843.9	1860.8	1889.0	1924.6	1923.4	1884.7	1861.7	1812.6	1713.7	1578.8
10°	1554.6	1571.8	1599.4	1663.6	1794.4	1909.9	1955.4	1938.8	1899.5	1786.4	1619.7
12.5°	1502.1	1500.2	1505.1	1523.9	1592.4	1757.0	1943.4	1976.9	1968.9	1853.1	1658.4
15°	1530.0	1527.9	1527.3	1533.7	1550.3	1619.7	1853.4	1949.5	2011.3	1914.8	1691.2
17.5°	1608.3	1599.1	1594.2	1589.0	1584.1	1601.3	1745.3	1873.1	2017.7	1968.9	1718.6
20°	1742.5	1727.2	1709.1	1679.6	1651.9	1643.3	1699.8	1794.4	1994.7	2010.0	1736.4
22.5°	1911.1	1891.5	1860.2	1806.4	1750.2	1717.7	1722.3	1769.6	1960.3	2054.9	1744.7
25°	2100.6	2075.4	2033.7	1959.0	1876.4	1818.7	1788.6	1805.2	1944.6	2107.4	1754.2
27.5°	2303.6	2275.7	2221.0	2119.4	2025.7	1947.7	1886.3	1884.1	1971.3	2176.2	1769.6
30°	2504.8	2500.5	2429.2	2321.7	2197.7	2102.8	2014.3	2003.0	2046.0	2271.4	1800.0
32.5°	2773.2	2740.9	2653.7	2543.2	2400.1	2286.1	2181.4	2155.0	2160.5	2382.2	1847.0
35°	3111.6	3076.3	2953.5	2800.8	2640.8	2506.3	2390.5	2354.6	2341.1	2563.7	1926.2
37.5°	3330.3	3329.7	3252.6	3097.2	2925.5	2777.2	2651.3	2609.2	2581.9	2783.0	2049.0
40°	3336.1	3350.6	3360.7	3359.2	3236.9	3100.3	2988.5	2936.6	2873.0	3076.0	2207.8
42.5°	3157.1	3194.2	3283.6	3435.3	3507.8	3453.4	3359.2	3308.2	3213.6	3389.6	2401.3
45°	2915.1	2940.9	3097.2	3376.7	3654.6	3803.5	3731.7	3640.5	3515.8	3716.6	2574.8
47.5°	2806.7	2811.3	2912.3	3219.1	3665.6	4090.4	4134.0	3985.7	3790.3	3980.1	2710.5
50°	2482.7	2491.0	2630.4	2946.1	3536.0	4225.8	4538.1	4397.5	4089.8	4183.1	2760.0
52.5°	1871.2	1882.9	2059.8	2497.4	3179.8	4168.1	4827.4	4793.3	4417.8	4282.3	2762.7
55°	1104.1	1119.4	1288.3	1681.1	2501.1	3800.8	4848.9	4974.2	4676.6	4341.0	2758.4
57.5°	515.6	526.4	623.1	866.0	1555.5	3003.8	4525.2	4850.2	4819.5	4372.0	2788.9
60°	273.9	277.0	300.4	375.0	703.0	1904.7	3893.5	4379.7	4689.2	4415.0	2826.0
62.5°	209.4	210.4	209.1	218.0	295.4	845.5	2943.0	3600.5	4165.0	4382.7	2784.9
65°	181.5	183.0	174.4	172.3	189.5	301.6	1748.4	2566.5	3272.9	3947.6	2504.5
67.5°	162.8	163.4	152.9	144.0	147.1	163.1	689.8	1405.0	2166.3	2893.6	1815.3
70°	149.9	149.3	137.9	123.8	119.8	111.5	219.3	515.0	1035.3	1467.4	844.2
72.5°	132.7	133.0	127.4	109.0	99.5	78.0	101.7	150.2	309.0	399.9	197.8
75°	117.6	116.1	109.3	97.7	82.0	51.3	50.4	66.9	95.2	94.6	42.7
77.5°	85.1	83.5	85.7	80.2	63.0	33.2	25.2	32.2	38.7	37.5	12.0
80°	62.3	61.4	55.3	66.6	55.6	22.7	15.7	17.2	20.0	16.9	3.7
82.5°	42.7	42.4	39.0	36.9	31.6	13.8	9.8	10.7	12.9	9.5	1.8
85°	6.8	7.7	28.3	22.4	18.7	6.1	6.8	7.4	8.6	5.2	0.6
87.5°	0.0	0.0	13.2	11.7	3.7	2.5	4.0	4.3	4.3	2.8	0.0
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°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1470.4	1439.7	1382.9	1324.3	1269.9	1205.1	1160.6	1127.1	1088.4	1078.0	1100.7
5°	1480.6	1422.5	1300.3	1167.3	1042.3	903.8	797.9	714.0	638.2	612.4	635.7
7.5°	1496.5	1410.2	1210.9	992.0	774.5	558.3	410.3	312.9	250.9	232.5	242.3
10°	1512.5	1392.4	1107.4	784.4	487.1	271.8	176.9	141.3	128.1	125.3	126.8
12.5°	1525.7	1368.5	981.2	557.7	260.4	145.6	115.8	109.9	108.1	108.1	108.7
15°	1533.7	1332.2	831.6	354.7	149.9	109.9	101.0	99.2	99.2	99.5	100.1
17.5°	1532.8	1286.2	668.0	214.7	112.1	97.4	92.1	90.6	90.3	90.9	91.2
20°	1521.4	1226.0	503.7	141.6	97.7	88.8	83.5	80.8	80.5	81.1	81.7
22.5°	1499.9	1151.7	360.2	109.0	88.1	80.5	74.0	71.6	71.6	72.2	72.8
25°	1473.8	1060.8	246.3	92.4	79.5	71.6	65.4	63.3	63.9	65.4	65.7
27.5°	1441.3	958.5	167.4	79.2	69.1	62.7	58.0	56.5	58.0	60.2	60.8
30°	1413.3	851.9	119.5	68.5	58.7	54.1	51.3	51.3	53.4	57.4	58.4
32.5°	1391.8	748.7	92.1	60.5	51.0	47.0	45.5	47.0	50.4	54.4	55.3
35°	1389.1	663.7	78.0	54.1	45.5	41.5	40.8	43.6	47.0	50.1	50.7
37.5°	1410.2	585.0	70.3	48.8	40.5	36.9	36.2	39.6	43.0	46.7	47.6
40°	1450.5	523.3	64.8	43.9	36.5	32.6	31.3	33.8	38.4	43.3	44.5
42.5°	1502.7	472.3	58.7	39.0	32.6	27.0	25.5	28.3	33.2	38.4	39.9
45°	1552.4	428.4	51.9	33.5	27.3	20.9	20.3	24.0	26.4	31.6	32.9
47.5°	1579.8	389.7	46.1	27.3	21.2	16.9	16.9	17.8	20.3	26.4	27.6
50°	1570.6	358.7	39.9	20.3	14.7	12.9	12.9	12.6	16.3	21.2	22.1
52.5°	1552.1	340.9	34.4	15.7	10.1	9.2	8.3	9.2	11.4	13.5	13.8
55°	1549.4	337.8	28.9	12.6	7.1	6.1	4.6	4.6	4.6	4.3	3.7
57.5°	1570.9	342.7	24.3	10.1	5.2	4.0	2.5	0.0	0.0	0.0	0.0
60°	1593.0	348.0	20.9	7.1	3.7	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1556.1	336.3	17.5	4.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0
65°	1366.9	286.2	13.8	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	972.3	191.6	9.2	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	443.8	80.2	5.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	94.9	24.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.3	18.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.1	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.7	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)