

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: P270069

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7027  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11035.8 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

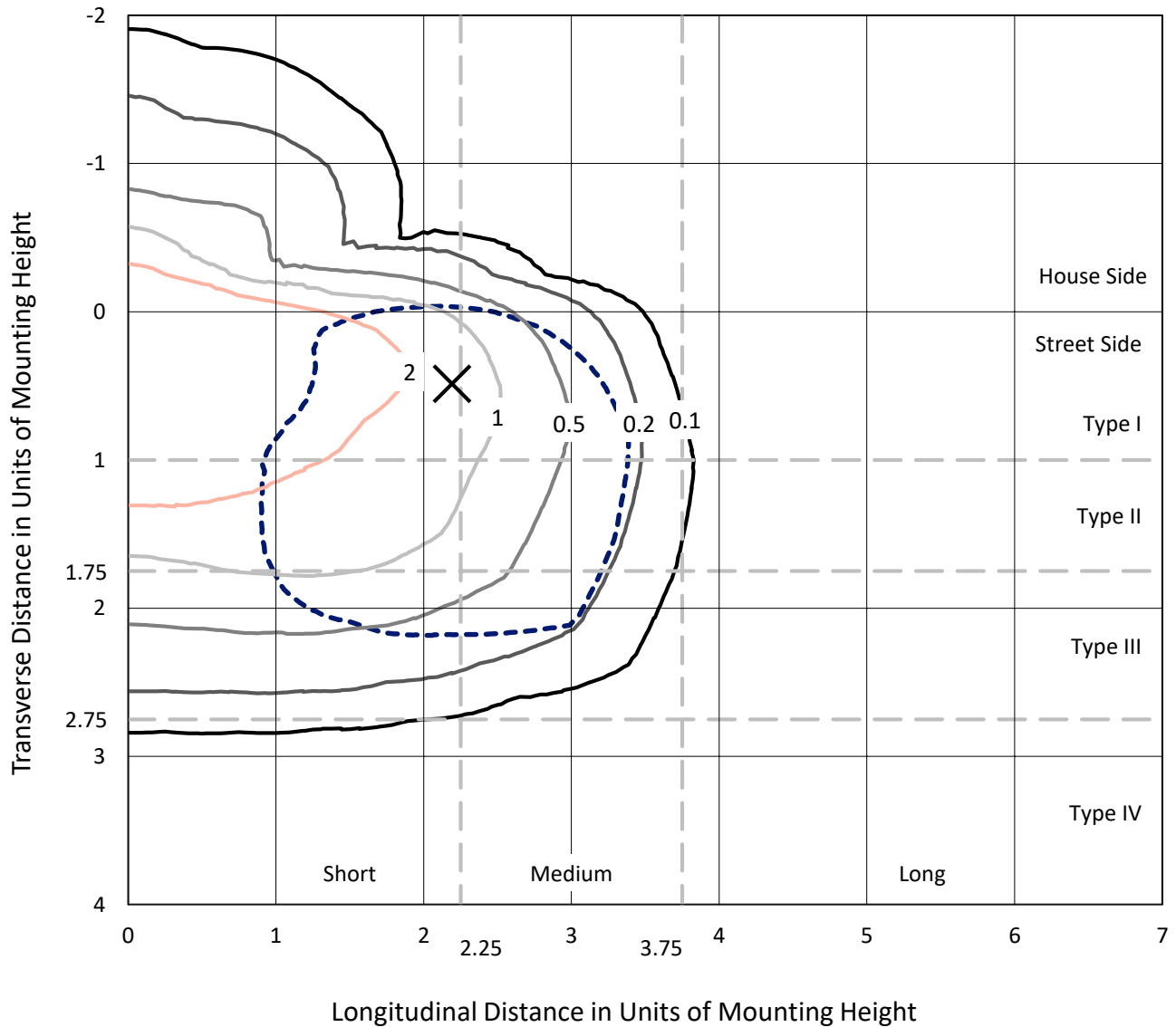
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

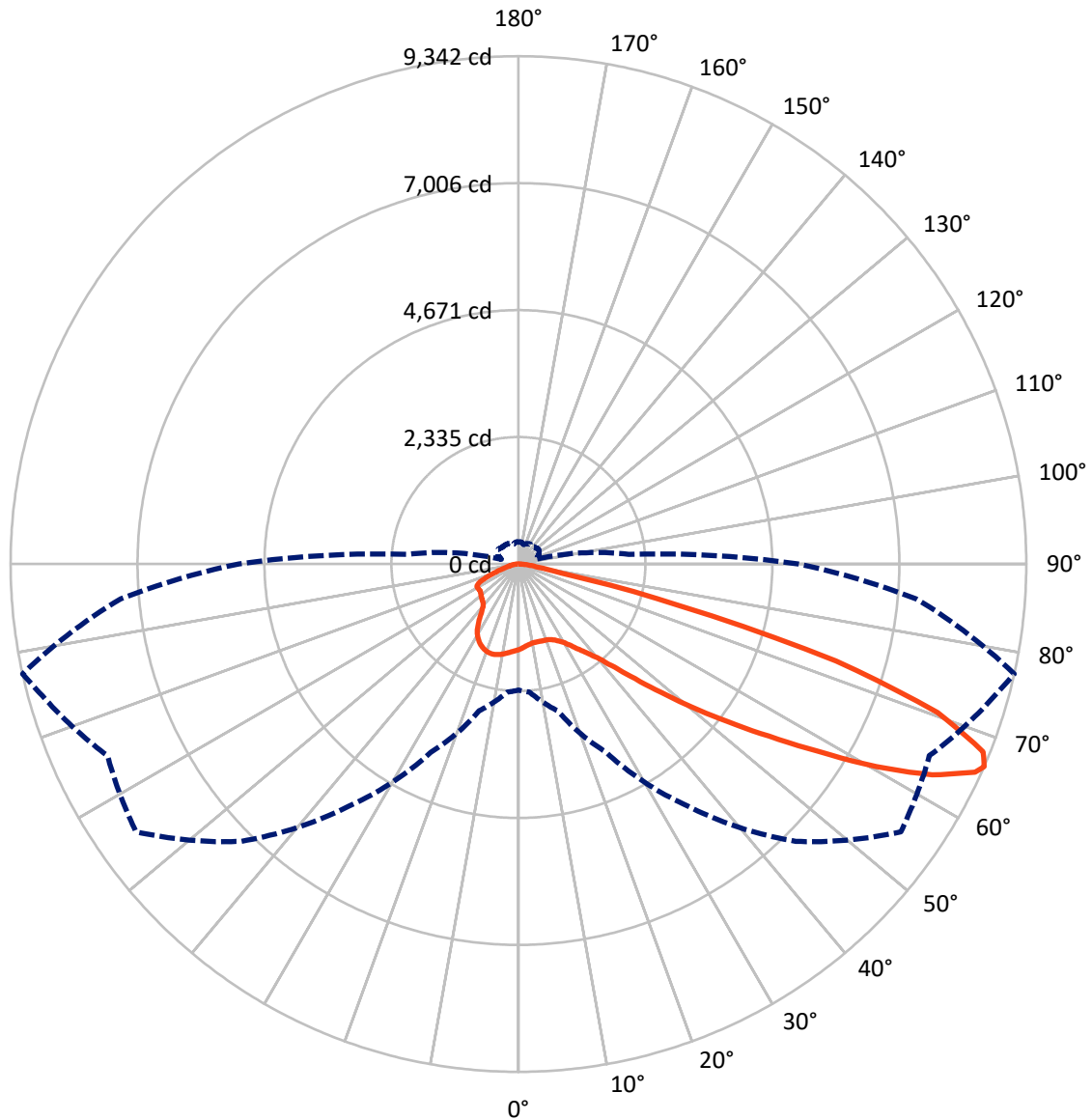
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1885.4	0.0	1885.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	9150.4	0.0	9150.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	11035.8	0.0	11035.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	1.3
10°-20°	396.4	3.6
20°-30°	676.5	6.1
30°-40°	1082.9	9.8
40°-50°	1673.0	15.2
50°-60°	2372.9	21.5
60°-70°	3174.4	28.8
70°-80°	1378.6	12.5
80°-90°	140.6	1.3
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°	11035.8	100.0
0°-180°	11035.8	100.0



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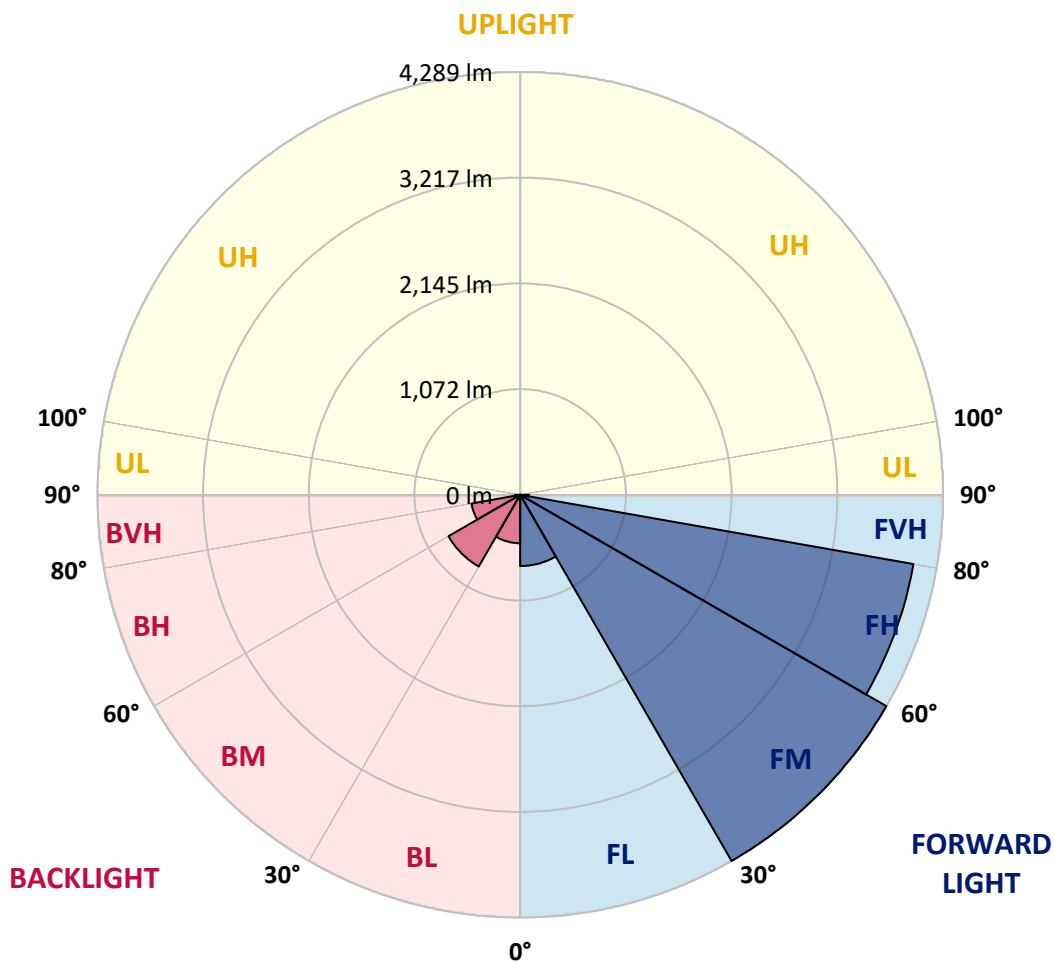
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.3	6.5			
FM	(30°-60°)	4289.1	38.9			
FH	(60°-80°)	4050.8	36.7			G2/5000
FVH	(80°-90°)	88.2	0.8			G1/100
BL	(0°-30°)	491.0	4.4	B1/500		
BM	(30°-60°)	839.8	7.6	B1/1000		
BH	(60°-80°)	502.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	52.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1391.1	1400.5	1408.5	1415.6	1430.3	1454.3	1481.9	1504.3	1536.7	1542.8	1560.1
5°	1263.5	1263.5	1269.8	1280.7	1300.4	1336.5	1374.0	1424.1	1494.4	1511.0	1557.0
7.5°	1201.5	1201.9	1205.5	1215.0	1232.1	1265.1	1306.1	1365.2	1460.6	1488.2	1566.4
10°	1224.3	1219.1	1211.4	1206.7	1209.2	1228.5	1267.6	1333.4	1439.7	1475.1	1587.2
12.5°	1352.6	1342.6	1315.6	1279.5	1245.2	1231.0	1254.0	1318.3	1430.8	1472.1	1615.0
15°	1562.2	1558.0	1507.4	1432.8	1349.4	1279.5	1263.9	1312.5	1431.9	1475.6	1647.8
17.5°	1825.0	1819.2	1752.6	1644.1	1508.0	1371.9	1298.9	1317.2	1435.5	1481.9	1679.6
20°	2090.4	2072.7	2000.7	1871.3	1696.8	1497.6	1356.8	1329.1	1440.3	1488.8	1712.9
22.5°	2288.6	2274.0	2209.3	2083.7	1882.4	1643.0	1434.5	1350.1	1455.3	1508.6	1754.1
25°	2462.8	2463.8	2399.6	2278.1	2070.1	1797.4	1534.6	1405.8	1493.9	1549.1	1810.4
27.5°	2678.0	2665.6	2605.7	2485.3	2255.7	1953.4	1655.5	1482.5	1551.3	1607.1	1884.5
30°	2935.8	2926.8	2857.5	2720.8	2461.6	2120.7	1793.7	1571.7	1625.4	1683.2	1981.4
32.5°	3238.6	3234.4	3162.6	2986.8	2699.4	2317.7	1955.9	1689.4	1735.9	1795.8	2120.7
35°	3594.3	3594.7	3509.8	3298.5	2959.6	2547.2	2139.9	1841.2	1870.5	1933.0	2286.5
37.5°	3813.2	3839.9	3808.1	3592.7	3254.3	2803.8	2378.8	2042.4	2023.7	2086.9	2464.3
40°	3860.1	3892.5	3993.1	3883.6	3583.8	3086.3	2590.5	2235.9	2212.4	2289.6	2693.2
42.5°	3794.5	3839.4	4052.1	4129.2	3933.7	3434.7	2875.1	2523.2	2493.5	2597.3	2977.9
45°	3755.4	3788.7	4034.8	4257.0	4237.1	3828.3	3237.6	2884.1	2873.0	3009.2	3306.4
47.5°	3687.6	3717.8	3954.6	4286.7	4415.4	4189.2	3673.0	3325.2	3346.5	3524.9	3677.1
50°	3724.2	3736.6	3864.9	4211.2	4467.1	4453.5	4159.5	3836.2	3909.2	4131.8	4096.9
52.5°	3718.9	3751.2	3854.4	4087.0	4473.9	4616.7	4638.7	4406.1	4559.9	4815.5	4562.6
55°	3006.5	3066.1	3731.9	4055.8	4498.0	4776.8	5065.3	5006.9	5293.6	5591.4	5088.2
57.5°	2871.1	2908.5	3277.7	4121.5	4625.2	5082.4	5539.8	5668.0	6147.7	6493.5	5728.5
60°	2844.5	2890.8	3273.1	4201.7	4883.2	5580.5	6243.1	6468.4	7187.0	7565.5	6471.0
62.5°	2761.5	2811.5	3242.3	4191.3	5249.9	6269.2	7143.7	7319.4	8172.5	8540.5	7092.1
65°	2498.7	2545.6	2991.4	4022.9	5497.0	7004.4	8209.5	8099.5	8950.4	9227.3	7401.8
66°	2318.9	2364.7	2793.9	3824.8	5439.6	7213.0	8587.0	8340.9	9124.7	9341.6	7341.3
67.5°	1989.7	2025.8	2410.2	3381.0	5134.6	7271.4	8904.5	8522.3	9142.9	9219.6	6995.6
70°	1257.2	1267.6	1566.4	2333.9	3886.7	6306.2	8421.3	8071.8	8388.8	8181.4	5864.6
72.5°	545.5	541.8	751.9	1187.3	2200.5	4231.5	6812.0	6660.4	6580.5	6107.0	4105.3
75°	303.4	307.7	390.6	551.2	894.3	2078.5	4456.2	4264.3	3600.4	3072.4	1861.5
77.5°	243.5	249.2	323.7	391.1	401.5	724.8	2085.2	1696.8	1021.6	819.8	517.2
80°	192.3	202.8	282.6	304.5	270.6	298.7	673.6	538.7	404.1	370.7	268.1
82.5°	152.3	159.5	242.5	230.4	189.4	201.3	322.9	314.4	262.8	239.4	154.9
85°	109.6	123.1	199.2	173.6	124.1	135.6	214.3	205.4	150.6	123.1	68.4
87.5°	44.8	58.4	140.8	115.3	69.3	63.2	106.9	100.6	71.4	52.1	33.9
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°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1571.0	1583.6	1599.7	1609.7	1615.0	1618.6	1624.2	1623.7	1625.4	1625.8	1627.9
5°	1581.6	1602.3	1625.8	1632.1	1632.1	1626.3	1620.6	1611.2	1607.5	1606.6	1607.5
7.5°	1608.7	1631.6	1652.0	1644.5	1628.9	1606.0	1576.3	1550.2	1536.1	1531.5	1530.4
10°	1643.0	1670.7	1679.0	1651.4	1605.5	1550.2	1491.2	1448.5	1424.1	1417.3	1415.2
12.5°	1684.7	1710.8	1699.4	1640.9	1556.0	1466.8	1385.5	1317.2	1266.0	1249.9	1248.9
15°	1730.7	1750.9	1710.8	1608.7	1481.9	1350.5	1205.5	1087.7	1024.1	1003.8	1002.1
17.5°	1773.4	1783.9	1704.1	1552.4	1372.9	1160.3	967.7	877.0	855.1	860.3	861.5
20°	1809.9	1809.9	1681.1	1471.6	1201.5	909.4	788.0	786.3	801.9	817.5	820.7
22.5°	1850.1	1826.1	1640.9	1357.2	958.4	744.1	726.4	740.9	758.7	775.9	778.6
25°	1899.6	1839.1	1585.1	1184.1	753.5	675.7	682.5	694.6	703.5	714.3	715.9
27.5°	1954.8	1855.8	1511.7	945.8	653.8	633.0	638.2	642.4	641.4	645.5	646.6
30°	2021.0	1875.1	1411.0	739.3	612.6	596.6	587.1	583.4	583.4	590.2	592.9
32.5°	2109.7	1903.8	1266.6	633.6	592.9	570.5	540.2	526.6	531.8	554.9	560.1
35°	2207.2	1934.5	1071.0	597.6	588.7	558.4	511.6	486.5	487.1	508.4	515.2
37.5°	2313.7	1973.7	856.8	590.7	598.1	558.9	496.5	462.0	448.0	448.0	450.5
40°	2449.7	2013.8	693.5	595.4	617.9	565.3	488.6	442.8	403.1	404.1	406.3
42.5°	2627.1	2048.1	605.8	605.4	641.8	573.6	488.0	417.2	382.8	406.3	427.6
45°	2824.1	2065.5	567.3	614.3	661.2	578.8	479.8	413.0	385.4	455.3	495.9
47.5°	3051.0	2055.5	545.9	617.3	665.9	578.8	470.4	422.9	403.6	527.1	574.6
50°	3299.7	2026.8	525.1	611.1	664.2	577.8	479.2	432.9	410.3	539.7	572.5
52.5°	3592.1	2002.9	503.2	597.6	653.3	572.0	489.7	428.6	389.0	490.7	513.7
55°	3926.0	2009.6	478.6	578.2	636.2	561.1	486.0	412.0	366.6	432.3	446.4
57.5°	4352.4	2090.4	449.5	553.7	612.6	542.8	473.0	404.1	359.9	392.1	400.5
60°	4828.5	2231.2	413.0	529.2	583.4	513.7	463.0	407.8	362.9	389.0	393.2
62.5°	5177.9	2313.0	381.7	493.3	543.8	481.3	450.5	412.4	371.3	399.9	398.8
65°	5272.7	2178.6	342.6	440.6	490.1	447.4	434.9	417.7	375.0	408.8	404.1
66°	5139.8	2033.7	325.4	416.2	463.0	430.6	427.1	417.2	373.3	409.8	402.0
67.5°	4817.0	1736.3	295.6	380.2	419.8	405.7	414.6	412.4	369.2	408.8	397.9
70°	3928.5	1184.8	253.0	316.6	349.4	357.2	390.6	395.8	355.5	390.6	366.6
72.5°	2744.9	721.7	223.7	245.5	282.6	304.5	357.7	372.8	337.4	341.0	318.1
75°	1326.5	383.2	202.8	190.4	219.5	254.5	318.1	341.5	308.7	285.2	276.9
77.5°	413.5	234.1	172.0	153.3	172.0	205.4	265.9	299.3	274.8	238.8	235.6
80°	222.2	172.0	132.4	123.1	136.2	161.2	209.0	249.8	236.3	214.3	191.3
82.5°	146.6	111.6	98.1	95.4	103.8	123.1	155.3	207.0	207.0	183.6	133.5
85°	75.5	68.4	67.3	67.3	72.5	81.8	105.8	159.5	170.0	96.9	80.3
87.5°	37.5	39.0	36.6	38.1	40.7	40.2	50.6	80.3	95.9	58.8	49.0
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)