

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: P200230

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10353 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

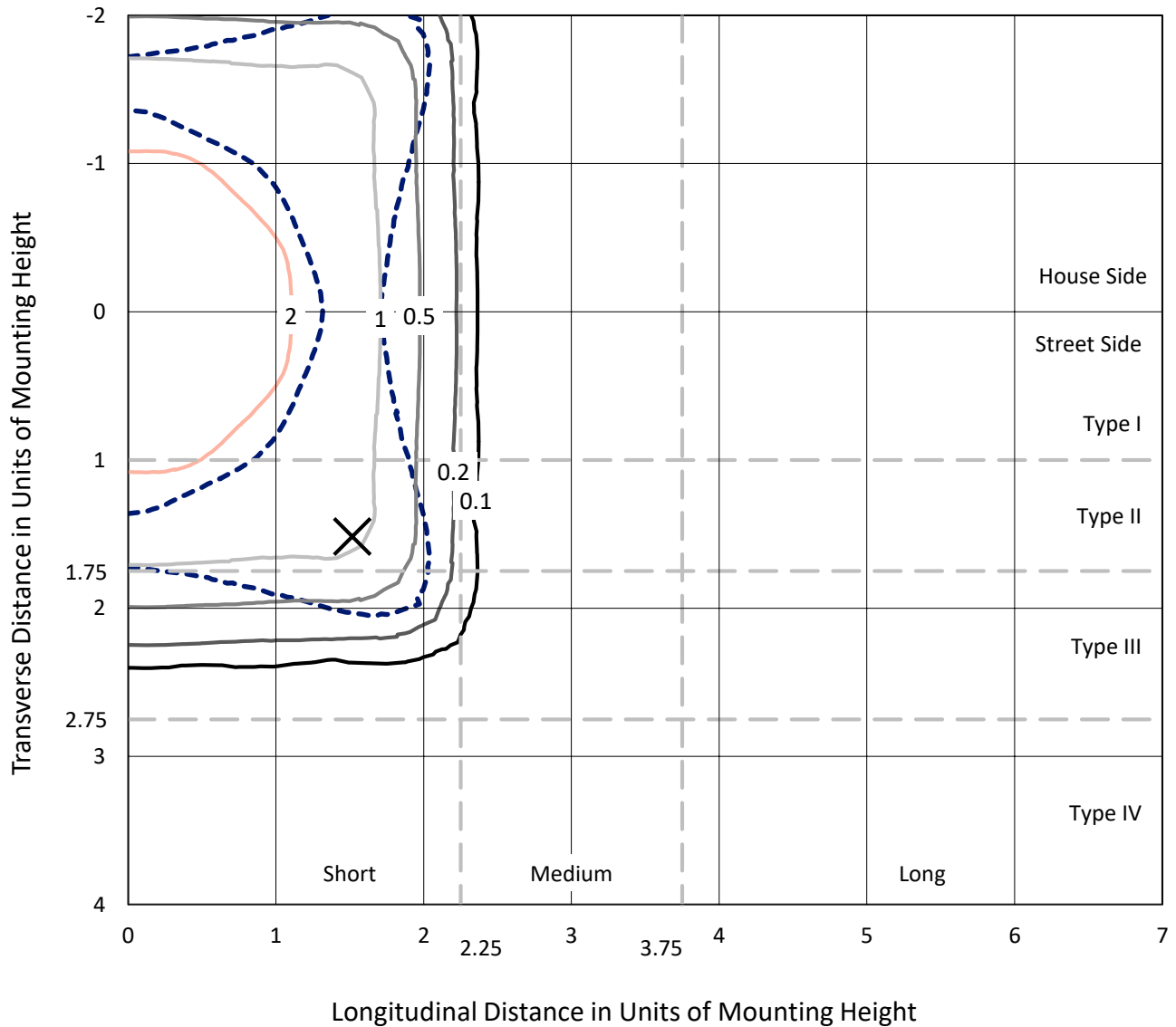
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

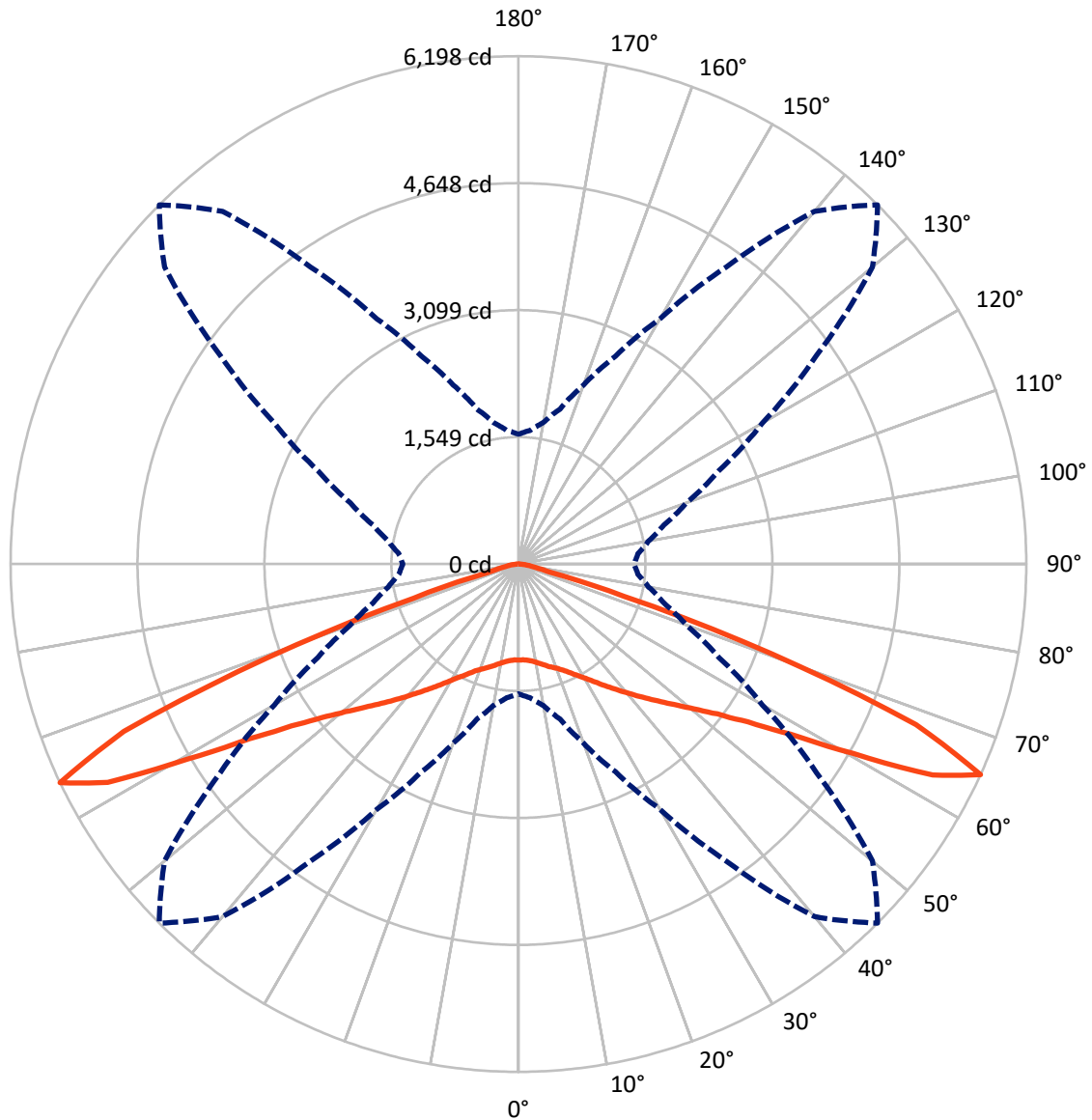
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5176.5	0.0	5176.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5176.5	0.0	5176.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10353.0	0.0	10353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.1
10°-20°	366.2	3.5
20°-30°	684.7	6.6
30°-40°	1158.0	11.2
40°-50°	1893.5	18.3
50°-60°	3011.0	29.1
60°-70°	2721.7	26.3
70°-80°	344.4	3.3
80°-90°	59.3	0.6
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°	10353.0	100.0
0°-180°	10353.0	100.0

Coefficient of Utilization



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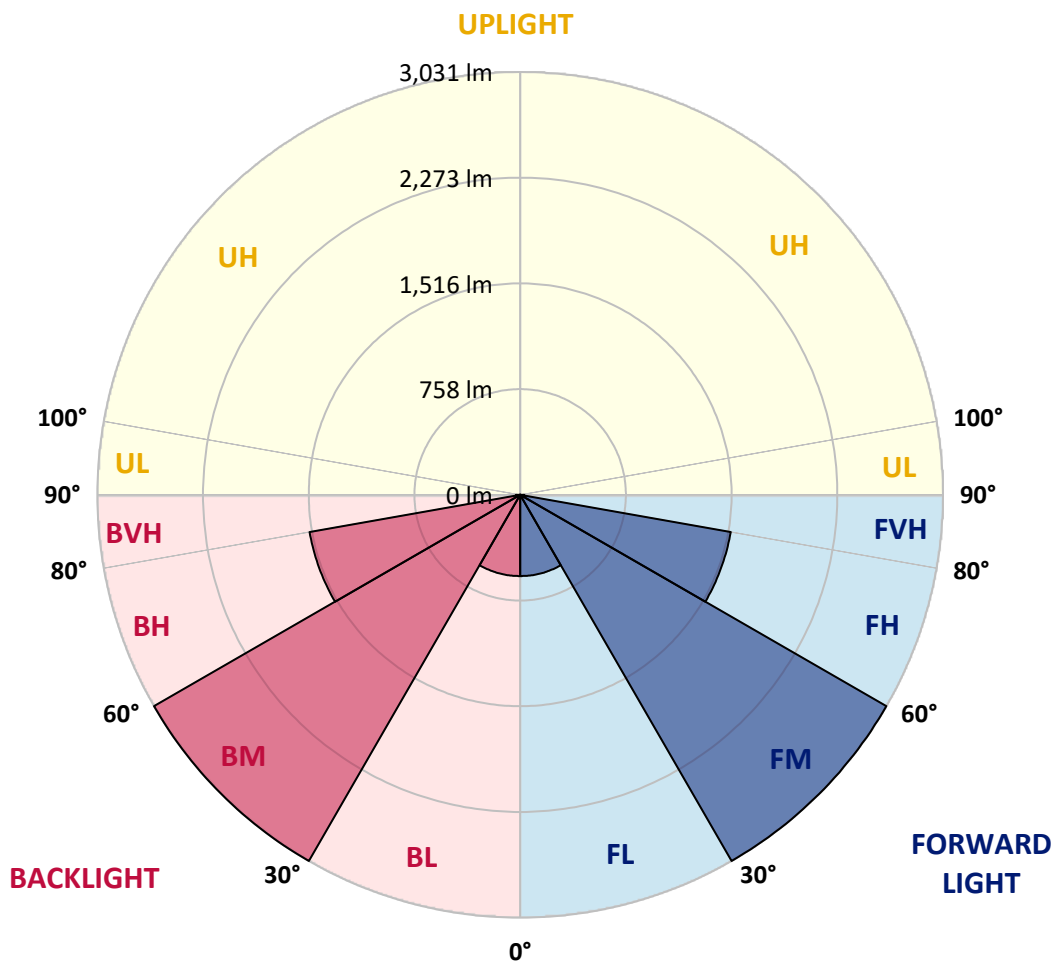
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.5	5.6			
FM	(30°-60°)	3031.3	29.3			
FH	(60°-80°)	1533.1	14.8			G1/1800
FVH	(80°-90°)	29.6	0.3			G1/100
BL	(0°-30°)	582.5	5.6	B2/1000		
BM	(30°-60°)	3031.3	29.3	B3/5000		
BH	(60°-80°)	1533.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	29.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4
2.5°	1172.4	1173.4	1174.4	1173.4	1174.4	1172.9	1171.9	1173.4	1171.9	1170.5	1171.4
5°	1182.6	1183.1	1183.1	1181.6	1183.1	1182.1	1180.7	1182.6	1181.1	1179.7	1180.7
7.5°	1199.6	1201.5	1200.1	1198.6	1199.6	1198.6	1197.6	1198.1	1197.6	1196.2	1196.7
10°	1222.4	1223.8	1222.8	1222.4	1223.3	1222.8	1221.9	1221.4	1221.9	1220.4	1220.4
12.5°	1250.0	1249.5	1249.0	1249.5	1251.0	1251.0	1250.5	1251.0	1251.9	1252.4	1251.5
15°	1277.1	1278.1	1278.1	1278.1	1281.0	1283.5	1284.9	1285.9	1287.8	1288.3	1286.4
17.5°	1311.1	1311.1	1310.6	1311.1	1314.0	1317.9	1319.3	1321.3	1323.2	1324.7	1322.2
20°	1348.9	1349.9	1349.9	1350.8	1354.7	1359.1	1359.1	1360.1	1359.1	1360.1	1358.6
22.5°	1395.0	1397.9	1397.9	1398.4	1402.2	1407.6	1406.1	1407.6	1405.2	1407.1	1405.2
25°	1455.1	1459.5	1458.5	1458.5	1461.4	1464.8	1465.3	1468.2	1467.7	1470.1	1468.7
27.5°	1523.0	1529.8	1531.7	1531.2	1533.2	1536.6	1537.5	1540.9	1539.0	1540.9	1539.9
30°	1604.4	1607.3	1611.2	1612.7	1615.1	1618.5	1618.5	1619.0	1616.6	1619.5	1620.9
32.5°	1688.8	1694.1	1698.0	1706.7	1711.1	1713.5	1713.0	1714.0	1711.6	1715.5	1718.4
35°	1800.3	1804.2	1810.5	1817.3	1823.1	1822.6	1821.2	1821.7	1821.7	1825.1	1828.0
37.5°	1934.6	1935.6	1943.8	1953.5	1956.5	1953.5	1944.8	1942.9	1938.5	1942.9	1947.7
40°	2076.7	2080.1	2096.6	2102.9	2104.3	2099.0	2086.4	2079.1	2069.4	2074.8	2081.5
42.5°	2225.6	2232.3	2247.4	2258.5	2263.4	2260.0	2242.5	2231.4	2218.8	2221.7	2228.5
45°	2390.4	2398.7	2420.0	2430.7	2439.9	2434.5	2417.6	2400.6	2380.7	2382.2	2392.8
47.5°	2574.7	2582.9	2610.5	2628.5	2633.3	2632.4	2613.5	2590.2	2563.0	2562.1	2571.3
50°	2781.2	2789.5	2823.9	2851.5	2865.6	2864.1	2841.8	2808.9	2775.9	2776.4	2788.0
52.5°	2982.9	2993.1	3029.0	3076.5	3104.1	3124.0	3110.4	3079.4	3039.2	3040.1	3050.8
55°	3172.0	3189.0	3230.2	3294.7	3346.1	3401.9	3417.9	3416.9	3392.6	3399.4	3410.1
57.5°	3263.7	3288.9	3352.4	3454.2	3559.0	3672.4	3768.4	3840.2	3870.7	3916.8	3906.1
60°	3090.1	3130.3	3223.9	3373.7	3580.8	3817.4	4071.0	4318.7	4530.1	4689.7	4598.0
62.5°	2530.1	2582.4	2695.9	2887.9	3201.1	3579.8	4065.2	4650.9	5289.0	5674.0	5399.0
65°	1583.1	1637.4	1752.8	1958.4	2325.0	2795.8	3454.2	4424.9	5617.2	6197.6	5638.1
67.5°	617.2	646.8	709.4	840.8	1116.2	1535.1	2196.0	3297.6	4723.6	5232.2	4635.8
70°	309.3	312.3	323.9	348.1	407.3	529.0	804.9	1528.8	2709.0	3271.9	2611.5
72.5°	223.5	224.0	229.8	240.5	259.4	286.6	338.9	467.9	881.0	1346.5	825.7
75°	171.2	173.1	176.5	182.3	192.5	206.1	225.0	269.6	334.1	387.4	325.8
77.5°	131.9	135.8	138.2	143.5	149.8	159.0	164.4	181.3	210.9	222.1	218.7
80°	100.4	103.8	109.1	113.5	117.8	122.2	120.2	128.0	143.5	152.7	147.9
82.5°	64.0	67.9	83.4	87.3	89.2	92.1	88.7	89.2	96.0	101.8	96.0
85°	41.2	43.6	52.9	57.7	58.2	60.1	58.7	55.3	55.3	50.4	56.7
87.5°	18.9	19.4	23.8	28.1	29.1	26.2	25.7	24.7	19.9	18.9	20.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4
2.5°	1171.0	1171.9	1172.4	1173.9	1174.4	1174.4	1174.8	1175.8
5°	1180.2	1181.6	1182.1	1184.1	1184.5	1184.1	1185.0	1185.5
7.5°	1196.7	1199.1	1200.1	1202.0	1200.5	1202.5	1203.0	1203.0
10°	1220.9	1223.3	1223.8	1225.8	1224.8	1225.8	1225.8	1224.8
12.5°	1252.9	1253.4	1251.9	1253.4	1251.5	1252.4	1251.0	1250.0
15°	1288.3	1286.8	1283.5	1283.5	1280.5	1281.0	1280.5	1280.1
17.5°	1322.7	1319.8	1317.4	1316.4	1314.0	1313.5	1312.1	1312.1
20°	1360.5	1359.1	1357.6	1355.7	1353.3	1350.8	1350.4	1351.3
22.5°	1406.1	1405.6	1405.6	1404.7	1401.3	1398.9	1397.4	1397.4
25°	1467.2	1462.9	1462.9	1462.4	1460.9	1459.5	1456.6	1458.0
27.5°	1536.1	1533.6	1535.6	1535.1	1533.6	1533.6	1531.7	1531.7
30°	1620.9	1620.0	1622.9	1620.4	1615.6	1615.1	1613.2	1610.7
32.5°	1718.9	1717.9	1722.3	1719.4	1711.6	1707.2	1703.4	1701.4
35°	1828.0	1828.4	1833.8	1831.8	1823.1	1820.2	1813.4	1812.4
37.5°	1947.2	1955.0	1964.2	1966.2	1958.9	1956.9	1949.7	1945.8
40°	2087.4	2097.6	2111.6	2115.0	2107.2	2105.8	2095.6	2090.3
42.5°	2236.7	2254.2	2271.6	2274.5	2266.8	2259.0	2249.3	2245.4
45°	2403.5	2424.4	2447.1	2453.0	2441.3	2432.1	2419.5	2419.5
47.5°	2590.7	2616.8	2642.5	2658.5	2647.9	2638.2	2623.2	2613.5
50°	2811.8	2847.6	2881.1	2897.6	2880.6	2862.2	2836.0	2827.3
52.5°	3089.1	3127.9	3157.0	3148.3	3122.1	3096.4	3067.8	3056.1
55°	3443.1	3456.2	3456.2	3423.2	3370.8	3327.7	3282.6	3267.5
57.5°	3885.8	3835.3	3757.7	3659.3	3535.7	3428.0	3355.3	3320.9
60°	4406.0	4163.6	3889.6	3620.5	3399.4	3217.1	3109.0	3059.5
62.5°	4752.7	4118.5	3569.6	3137.6	2819.5	2599.9	2450.5	2392.4
65°	4441.9	3434.8	2699.8	2182.9	1836.2	1612.7	1464.8	1410.5
67.5°	3253.5	2152.3	1437.6	1030.4	754.9	602.2	541.6	516.4
70°	1460.4	757.9	464.5	362.7	312.7	287.0	275.9	272.0
72.5°	440.3	318.6	268.6	242.4	222.6	209.9	200.7	199.8
75°	265.7	221.1	196.4	180.9	168.3	158.1	153.2	151.8
77.5°	185.7	162.4	150.8	139.6	129.9	122.2	117.8	114.4
80°	130.4	119.3	113.9	107.6	101.3	94.1	87.8	84.9
82.5°	87.3	84.9	84.9	81.0	75.6	68.9	56.2	53.3
85°	56.2	55.8	56.7	55.3	51.4	44.1	36.4	34.4
87.5°	26.2	26.7	29.6	29.1	28.1	23.3	18.4	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)