

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: P200554

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200554
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-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11471 lumens
Efficiency: N/A
Efficacy: 88.9 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): 129
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

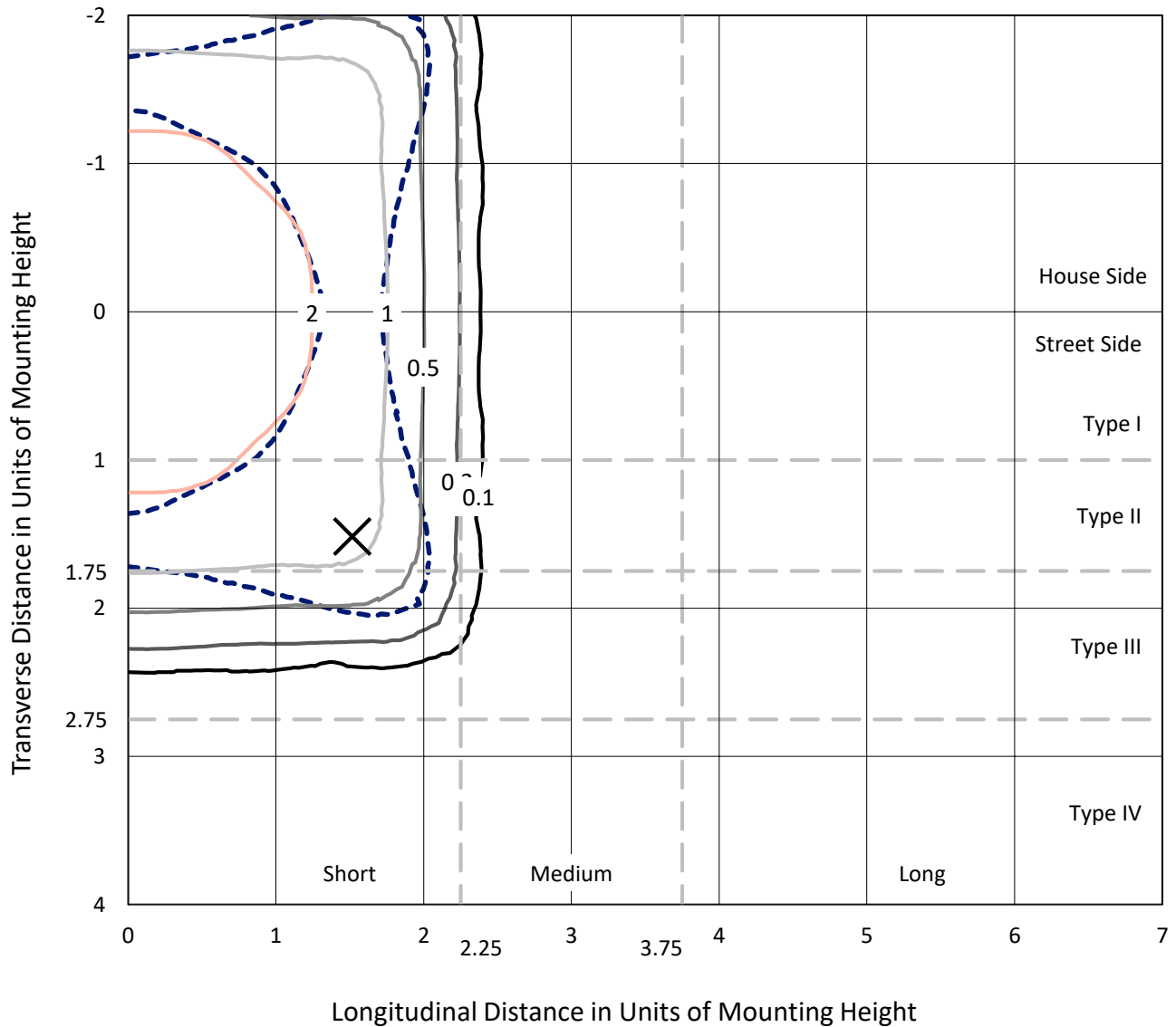


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Iso-Footcandle Lines of Horizontal Illumination

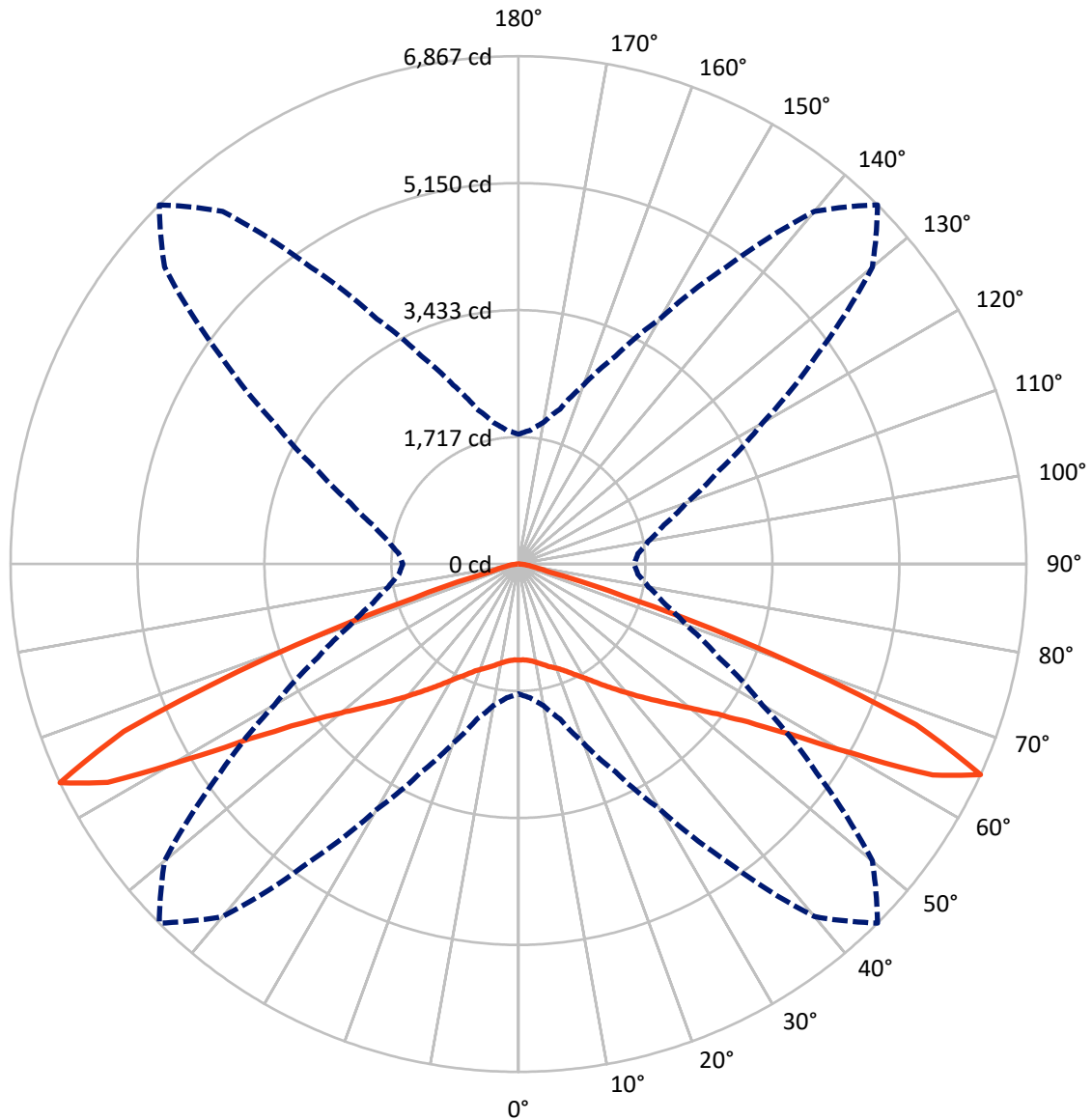
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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	5735.5	0.0	5735.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5735.5	0.0	5735.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11471.0	0.0	11471.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.1
10°-20°	405.7	3.5
20°-30°	758.7	6.6
30°-40°	1283.1	11.2
40°-50°	2098.0	18.3
50°-60°	3336.1	29.1
60°-70°	3015.6	26.3
70°-80°	381.6	3.3
80°-90°	65.7	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°	11471.0	100.0
0°-180°	11471.0	100.0



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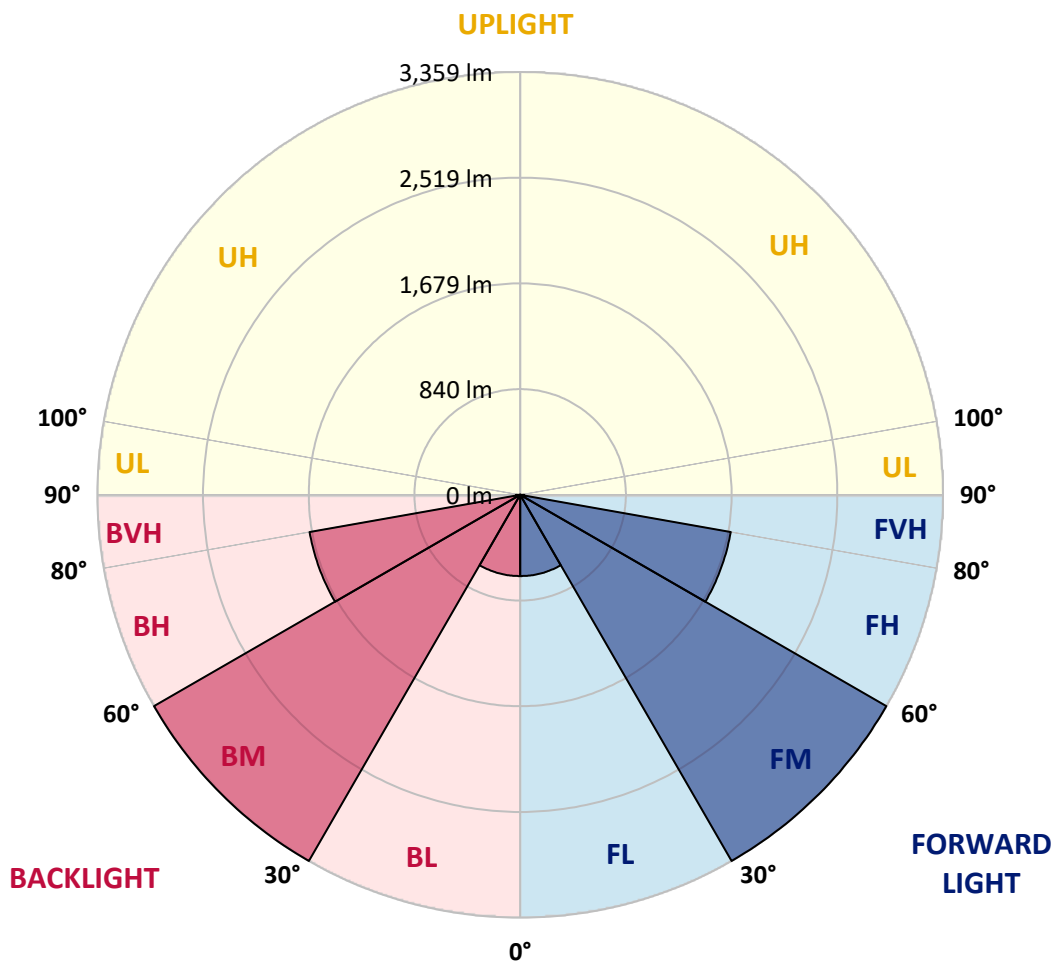
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.4	5.6			
FM	(30°-60°)	3358.6	29.3			
FH	(60°-80°)	1698.6	14.8			G1/1800
FVH	(80°-90°)	32.8	0.3			G1/100
BL	(0°-30°)	645.4	5.6	B2/1000		
BM	(30°-60°)	3358.6	29.3	B3/5000		
BH	(60°-80°)	1698.6	14.8	B3/2500		G1/1800
BVH	(80°-90°)	32.8	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°	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1299.0	1300.1	1301.2	1300.1	1301.2	1299.6	1298.5	1300.1	1298.5	1296.9	1297.9
5°	1310.3	1310.8	1310.8	1309.2	1310.8	1309.8	1308.2	1310.3	1308.7	1307.1	1308.2
7.5°	1329.1	1331.3	1329.6	1328.0	1329.1	1328.0	1327.0	1327.5	1327.0	1325.3	1325.9
10°	1354.4	1356.0	1354.9	1354.4	1355.4	1354.9	1353.8	1353.3	1353.8	1352.2	1352.2
12.5°	1385.0	1384.4	1383.9	1384.4	1386.1	1386.1	1385.5	1386.1	1387.1	1387.7	1386.6
15°	1415.1	1416.1	1416.1	1416.1	1419.4	1422.1	1423.7	1424.7	1426.9	1427.4	1425.3
17.5°	1452.7	1452.7	1452.1	1452.7	1455.9	1460.2	1461.8	1464.0	1466.1	1467.7	1465.0
20°	1494.6	1495.7	1495.7	1496.7	1501.0	1505.9	1505.9	1506.9	1505.9	1506.9	1505.3
22.5°	1545.6	1548.8	1548.8	1549.4	1553.7	1559.6	1558.0	1559.6	1556.9	1559.0	1556.9
25°	1612.2	1617.1	1616.0	1616.0	1619.2	1623.0	1623.5	1626.7	1626.2	1628.9	1627.3
27.5°	1687.4	1695.0	1697.1	1696.6	1698.7	1702.5	1703.6	1707.3	1705.2	1707.3	1706.2
30°	1777.7	1780.9	1785.2	1786.8	1789.5	1793.3	1793.3	1793.8	1791.1	1794.4	1796.0
32.5°	1871.2	1877.1	1881.4	1891.1	1895.9	1898.6	1898.0	1899.1	1896.4	1900.7	1903.9
35°	1994.7	1999.0	2006.0	2013.5	2020.0	2019.5	2017.8	2018.4	2018.4	2022.1	2025.4
37.5°	2143.6	2144.6	2153.8	2164.5	2167.7	2164.5	2154.8	2152.7	2147.8	2152.7	2158.1
40°	2301.0	2304.7	2323.0	2330.0	2331.6	2325.7	2311.7	2303.6	2292.9	2298.8	2306.3
42.5°	2465.9	2473.4	2490.1	2502.4	2507.8	2504.0	2484.7	2472.3	2458.4	2461.6	2469.1
45°	2648.5	2657.7	2681.3	2693.1	2703.3	2697.4	2678.6	2659.8	2637.8	2639.4	2651.2
47.5°	2852.7	2861.8	2892.5	2912.3	2917.7	2916.6	2895.7	2869.9	2839.8	2838.7	2848.9
50°	3081.6	3090.7	3128.8	3159.5	3175.0	3173.4	3148.7	3112.2	3075.6	3076.2	3089.1
52.5°	3305.0	3316.3	3356.1	3408.7	3439.4	3461.4	3446.3	3412.0	3367.4	3368.4	3380.3
55°	3514.6	3533.4	3579.0	3650.5	3707.4	3769.2	3786.9	3785.9	3759.0	3766.5	3778.3
57.5°	3616.1	3644.0	3714.4	3827.2	3943.3	4069.0	4175.4	4254.9	4288.7	4339.8	4327.9
60°	3423.8	3468.4	3572.0	3738.1	3967.5	4229.6	4510.6	4785.1	5019.3	5196.1	5094.6
62.5°	2803.3	2861.3	2987.0	3199.7	3546.8	3966.4	4504.1	5153.1	5860.1	6286.7	5982.1
65°	1754.1	1814.2	1942.1	2169.9	2576.0	3097.7	3827.2	4902.8	6223.8	6866.9	6246.9
67.5°	683.9	716.7	786.0	931.6	1236.7	1700.9	2433.1	3653.7	5233.7	5797.3	5136.5
70°	342.8	346.0	358.9	385.7	451.3	586.1	891.8	1693.9	3001.5	3625.2	2893.5
72.5°	247.7	248.2	254.6	266.5	287.4	317.5	375.5	518.4	976.1	1491.9	914.9
75°	189.6	191.8	195.6	202.0	213.3	228.3	249.3	298.7	370.2	429.2	361.0
77.5°	146.1	150.4	153.1	159.0	166.0	176.2	182.1	200.9	233.7	246.1	242.3
80°	111.2	115.0	120.9	125.7	130.5	135.4	133.2	141.8	159.0	169.2	163.9
82.5°	70.9	75.2	92.4	96.7	98.9	102.1	98.3	98.9	106.4	112.8	106.4
85°	45.7	48.4	58.6	63.9	64.5	66.6	65.0	61.2	61.2	55.9	62.9
87.5°	21.0	21.5	26.3	31.2	32.2	29.0	28.5	27.4	22.0	21.0	22.6
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°	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1297.4	1298.5	1299.0	1300.6	1301.2	1301.2	1301.7	1302.8
5°	1307.6	1309.2	1309.8	1311.9	1312.5	1311.9	1313.0	1313.5
7.5°	1325.9	1328.6	1329.6	1331.8	1330.2	1332.3	1332.9	1332.9
10°	1352.7	1355.4	1356.0	1358.1	1357.0	1358.1	1358.1	1357.0
12.5°	1388.2	1388.7	1387.1	1388.7	1386.6	1387.7	1386.1	1385.0
15°	1427.4	1425.8	1422.1	1422.1	1418.8	1419.4	1418.8	1418.3
17.5°	1465.6	1462.3	1459.7	1458.6	1455.9	1455.4	1453.7	1453.7
20°	1507.5	1505.9	1504.2	1502.1	1499.4	1496.7	1496.2	1497.3
22.5°	1558.0	1557.4	1557.4	1556.4	1552.6	1549.9	1548.3	1548.3
25°	1625.7	1620.8	1620.8	1620.3	1618.7	1617.1	1613.8	1615.5
27.5°	1701.9	1699.3	1701.4	1700.9	1699.3	1699.3	1697.1	1697.1
30°	1796.0	1794.9	1798.1	1795.4	1790.1	1789.5	1787.4	1784.7
32.5°	1904.5	1903.4	1908.2	1905.0	1896.4	1891.6	1887.3	1885.1
35°	2025.4	2025.9	2031.8	2029.7	2020.0	2016.8	2009.2	2008.2
37.5°	2157.5	2166.1	2176.3	2178.5	2170.4	2168.3	2160.2	2155.9
40°	2312.8	2324.1	2339.6	2343.4	2334.8	2333.2	2321.9	2316.0
42.5°	2478.2	2497.6	2516.9	2520.2	2511.6	2503.0	2492.2	2487.9
45°	2663.1	2686.2	2711.4	2717.9	2705.0	2694.8	2680.8	2680.8
47.5°	2870.4	2899.4	2927.9	2945.6	2933.8	2923.1	2906.4	2895.7
50°	3115.4	3155.2	3192.2	3210.5	3191.7	3171.3	3142.3	3132.6
52.5°	3422.7	3465.7	3497.9	3488.2	3459.2	3430.8	3399.1	3386.2
55°	3814.9	3829.4	3829.4	3792.8	3734.8	3687.0	3637.1	3620.4
57.5°	4305.4	4249.5	4163.5	4054.5	3917.5	3798.2	3717.6	3679.5
60°	4881.8	4613.2	4309.7	4011.5	3766.5	3564.5	3444.7	3389.9
62.5°	5265.9	4563.2	3955.1	3476.4	3124.0	2880.6	2715.2	2650.7
65°	4921.6	3805.7	2991.3	2418.6	2034.5	1786.8	1623.0	1562.8
67.5°	3604.8	2384.8	1592.9	1141.6	836.5	667.2	600.1	572.2
70°	1618.1	839.7	514.7	401.8	346.5	318.0	305.7	301.4
72.5°	487.8	353.0	297.6	268.6	246.6	232.6	222.4	221.3
75°	294.4	245.0	217.6	200.4	186.4	175.1	169.8	168.2
77.5°	205.8	180.0	167.1	154.7	144.0	135.4	130.5	126.8
80°	144.5	132.2	126.2	119.3	112.3	104.2	97.2	94.0
82.5°	96.7	94.0	94.0	89.7	83.8	76.3	62.3	59.1
85°	62.3	61.8	62.9	61.2	56.9	48.9	40.3	38.1
87.5°	29.0	29.5	32.8	32.2	31.2	25.8	20.4	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)