

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767600_350MP

Luminaire Tested: **GMX35PXXARHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767600_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXXARHS
Description: 400MH TYPE III VERTICAL AREA
WITH HOUSE SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 20922 lumens
Efficiency: 56.5%
Efficacy: 52.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B4 - U3 - G4

Input Watts (W): 397
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: 28.75 FT



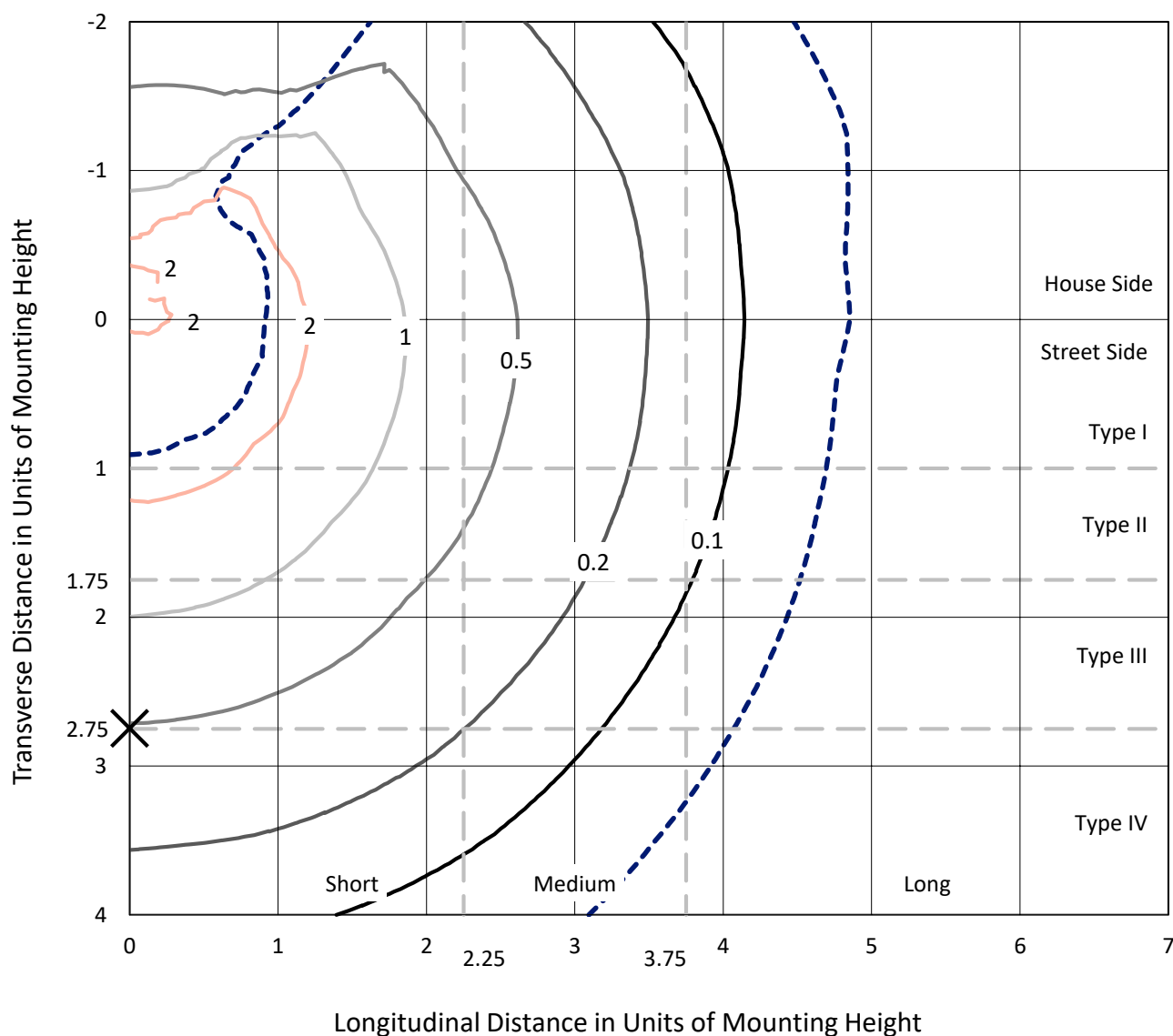
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

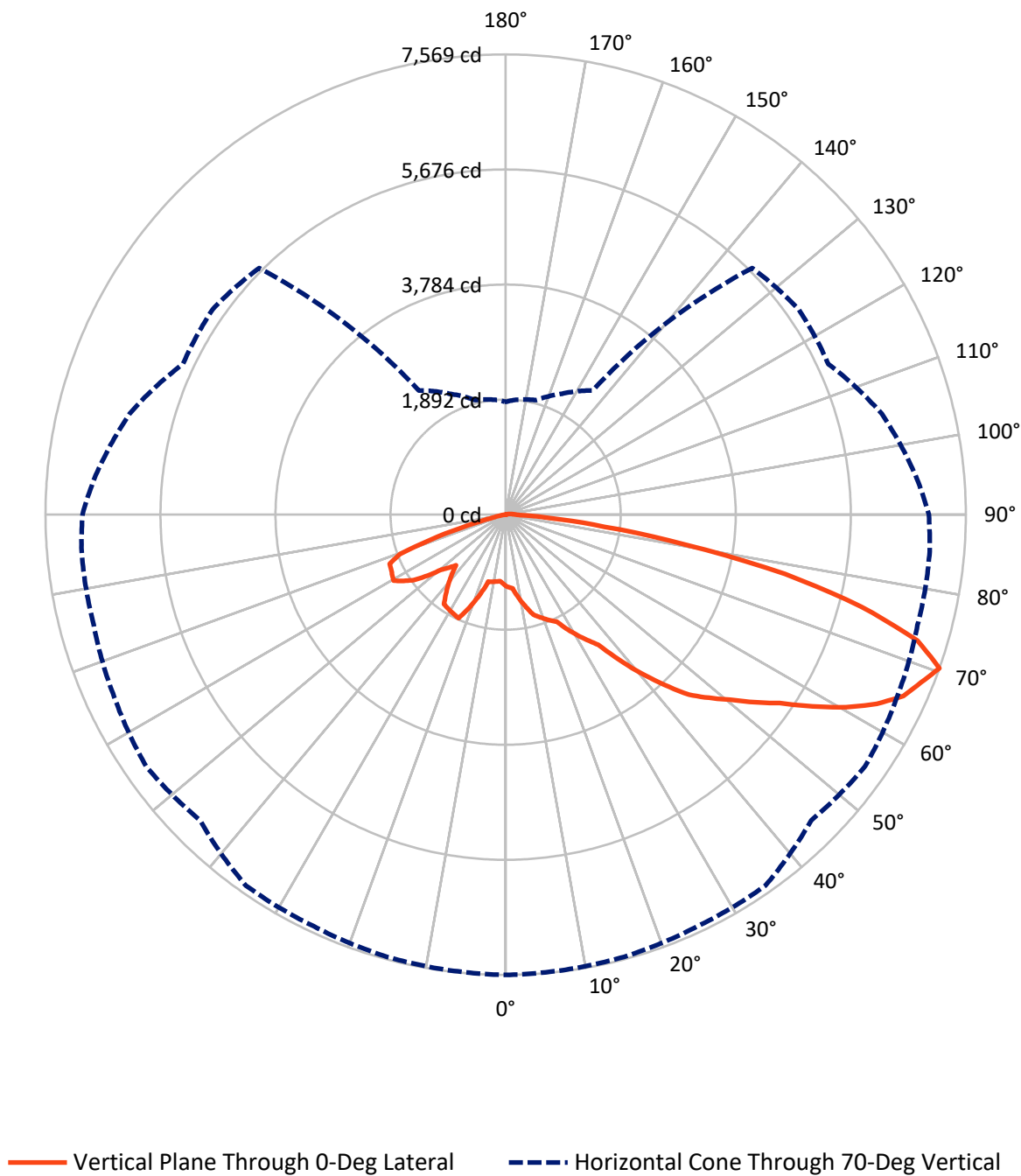
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



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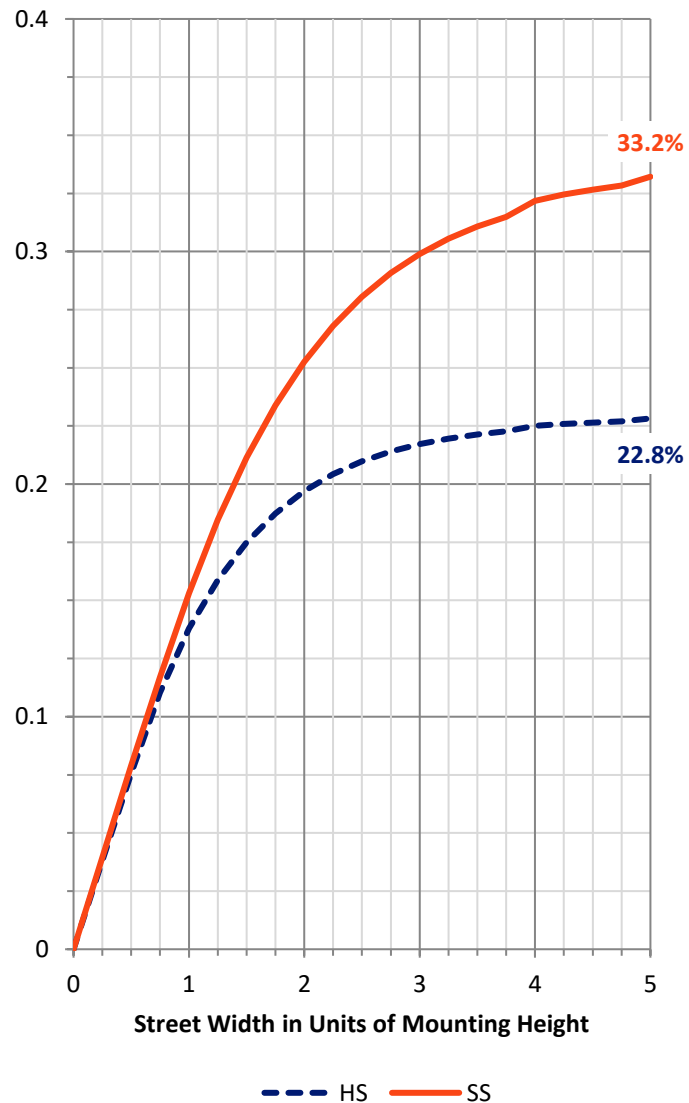
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8445.6	19.2	8464.7
	% Lamp	22.8	0.1	22.9
Street Side	Lumens	12404.9	52.3	12457.3
	% Lamp	33.5	0.1	33.7
Total	Lumens	20850.5	71.5	20922.0
	% Lamp	56.4	0.2	56.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.5	0.5	0.3
10°-20°	414.5	2.0	1.1
20°-30°	891.3	4.3	2.4
30°-40°	1669.0	8.0	4.5
40°-50°	2816.2	13.5	7.6
50°-60°	4075.5	19.5	11.0
60°-70°	5404.0	25.8	14.6
70°-80°	4680.5	22.4	12.7
80°-90°	824.1	3.9	2.2
90°-100°	60.3	0.3	0.2
100°-110°	17.1	0.1	0.0
110°-120°	1.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	20850.5	99.7	56.4
0°-180°	20922.0	100.0	56.5



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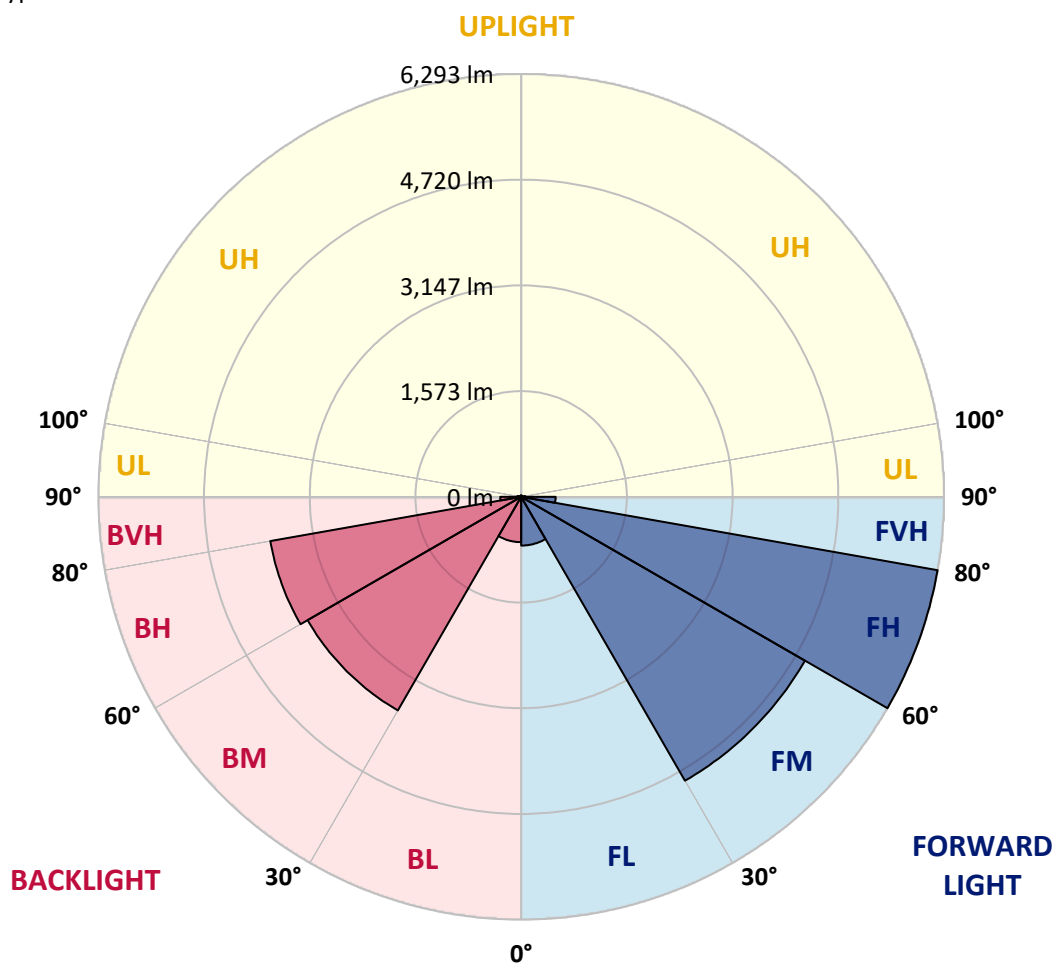
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	725.6	2.0			
FM	(30°-60°)	4877.6	13.2			
FH	(60°-80°)	6293.0	17.0			G3/7500
FVH	(80°-90°)	512.5	1.4			G4/750
BL	(0°-30°)	675.1	1.8	B2/1000		
BM	(30°-60°)	3670.7	9.9	B3/5000		
BH	(60°-80°)	3791.6	10.2	B4/5000		G4/5000
BVH	(80°-90°)	311.6	0.8			G3/500
UL	(90°-100°)	60.3	0.2		U3/500	
UH	(100°-180°)	19.2	0.1		U2/50	
Trapped Light		16078.0	43.5			

BUG Rating: B4-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8
5°	1218.9	1171.7	1198.4	1191.2	1171.7	1137.8	1143.9	1137.8	575.6	1110.0	1110.0
15°	1706.1	1672.2	1746.2	1740.0	1617.7	1536.5	1523.2	1468.7	1408.1	1394.7	1381.3
25°	1949.7	1929.1	1943.5	1915.8	1889.1	1847.9	1881.9	1875.7	1828.4	1868.5	1868.5
35°	2627.0	2572.5	2613.6	2647.6	2599.2	2653.7	2579.7	2599.2	2572.5	2667.1	2687.6
45°	4224.2	4278.6	4224.2	4400.9	4123.4	4170.7	4069.0	4271.4	4102.9	4278.6	4170.7
50°	4780.2	4942.6	4833.6	4867.6	4894.3	4657.9	4908.7	4793.6	4813.1	4861.4	4928.2
55°	5469.8	5361.9	5416.4	5382.5	5301.3	5172.8	5267.4	5071.1	5077.2	5023.8	5016.6
60°	6431.8	6445.2	6404.1	6350.6	6282.8	6005.3	6058.7	5896.4	5775.1	5680.5	5626.1
62.5°	6851.2	6777.2	6763.8	6715.5	6620.9	6364.0	6424.6	6228.3	6147.1	6025.9	5964.2
65°	7190.3	7026.9	7075.2	7026.9	6851.2	6709.3	6662.1	6567.5	6438.0	6370.2	6275.6
67.5°	7366.1	7298.2	7311.6	7237.6	7135.9	6952.9	6905.6	6885.1	6715.5	6715.5	6648.7
70°	7568.6	7555.2	7528.5	7467.8	7447.3	7108.1	7217.1	7101.9	7013.6	7000.2	6960.1
72.5°	7081.4	7013.6	7108.1	7047.5	7088.6	6824.4	6885.1	6702.1	6648.7	6526.4	6553.1
75°	6039.2	5924.1	6052.6	6073.1	6092.7	5958.0	5883.0	5829.6	5781.2	5632.2	5639.4
77.5°	4698.0	4637.3	4731.9	4739.1	4752.4	4603.4	4474.9	4380.4	4251.9	4156.3	4231.4
80°	3006.2	2978.5	2992.9	2959.0	2992.9	2823.3	2748.3	2687.6	2687.6	2776.0	2925.1
82.5°	1638.3	1557.1	1536.5	1509.8	1530.4	1401.9	1428.6	1347.4	1401.9	1434.8	1483.1
85°	745.1	663.9	696.8	656.7	704.0	602.3	636.2	588.9	596.1	615.6	636.2
87.5°	230.2	169.6	196.3	141.8	230.2	149.0	209.7	182.9	156.2	149.0	141.8
90°	162.4	101.7	128.5	81.2	162.4	88.4	156.2	128.5	107.9	94.6	88.4
95°	94.6	47.3	60.6	47.3	101.7	67.8	115.1	107.9	94.6	81.2	74.0
105°	13.4	7.2	7.2	7.2	0.0	0.0	7.2	7.2	7.2	7.2	7.2
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8	1177.8
5°	1103.8	1103.8	1130.6	1130.6	1130.6	1117.2	1123.4	1110.0	1110.0	1096.6
15°	1374.1	1340.2	1394.7	1449.2	1462.5	1387.5	1191.2	1157.3	1151.1	1137.8
25°	1847.9	1746.2	1685.6	1740.0	1841.8	1821.2	1895.2	1881.9	1895.2	1868.5
35°	2660.9	2559.2	2423.5	2559.2	2728.7	2748.3	2789.4	2105.9	1861.3	1787.3
45°	4061.8	3980.6	3831.6	3812.0	4042.2	3831.6	2051.4	1353.6	1185.0	1164.5
50°	4665.1	4582.9	4319.8	4353.7	4529.4	4258.1	1713.3	1455.3	1428.6	1394.7
55°	4880.9	4718.5	4434.9	4671.2	4793.6	3974.4	2038.1	1956.9	1889.1	1855.1
60°	5484.2	5226.2	4908.7	5138.9	5220.1	3093.6	2308.4	2247.8	2172.7	2139.8
62.5°	5809.0	5469.8	5097.8	5280.7	5354.7	2721.6	2295.0	2213.8	2172.7	2112.1
65°	6113.2	5714.4	5307.4	5403.0	5510.9	2511.9	2302.2	2166.6	2132.6	2085.4
67.5°	6452.4	6032.0	5571.6	5592.1	5632.2	2484.1	2315.6	2139.8	2072.0	2072.0
70°	6790.5	6404.1	5856.3	5883.0	5734.0	2491.3	2193.3	1949.7	1895.2	1855.1
72.5°	6418.5	6256.1	5775.1	5565.4	5273.5	2308.4	1889.1	1442.0	1238.5	1177.8
75°	5571.6	5571.6	5233.4	4746.3	4299.2	2105.9	1530.4	879.8	541.6	500.5
77.5°	4224.2	4407.1	4218.0	3730.8	3195.4	1943.5	1205.6	453.2	237.4	203.5
80°	2870.6	3093.6	3066.9	2572.5	2159.4	1455.3	724.6	223.0	107.9	94.6
82.5°	1408.1	1591.0	1611.6	1408.1	1198.4	649.6	277.5	88.4	47.3	41.1
85°	548.8	649.6	670.1	609.5	500.5	209.7	88.4	33.9	20.6	13.4
87.5°	54.5	141.8	149.0	135.7	115.1	41.1	13.4	13.4	0.0	0.0
90°	33.9	74.0	67.8	67.8	47.3	26.7	7.2	0.0	0.0	0.0
95°	26.7	54.5	47.3	41.1	33.9	20.6	20.6	13.4	13.4	0.0
105°	0.0	7.2	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)