

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: 766034_350MP

Luminaire Tested: **GMX35PXXRW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 766034_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXXRW
Description: 400MH RECTANGULAR WIDE AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 25017.7 lumens
Efficiency: 67.6%
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

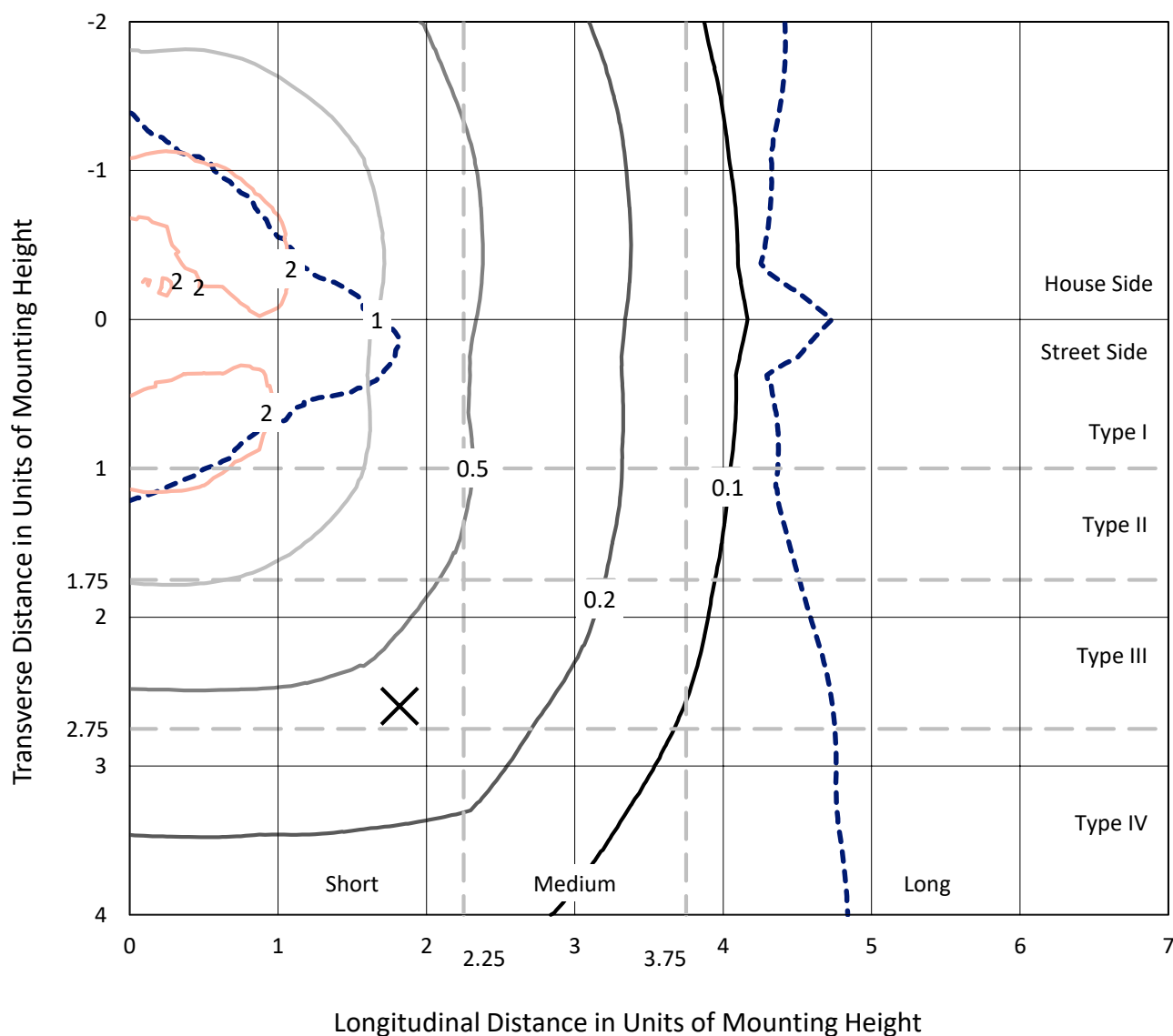
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 766034_350MP
 CATALOG NUMBER: GMX35PXXRW

Iso-Footcandle Lines of Horizontal Illumination

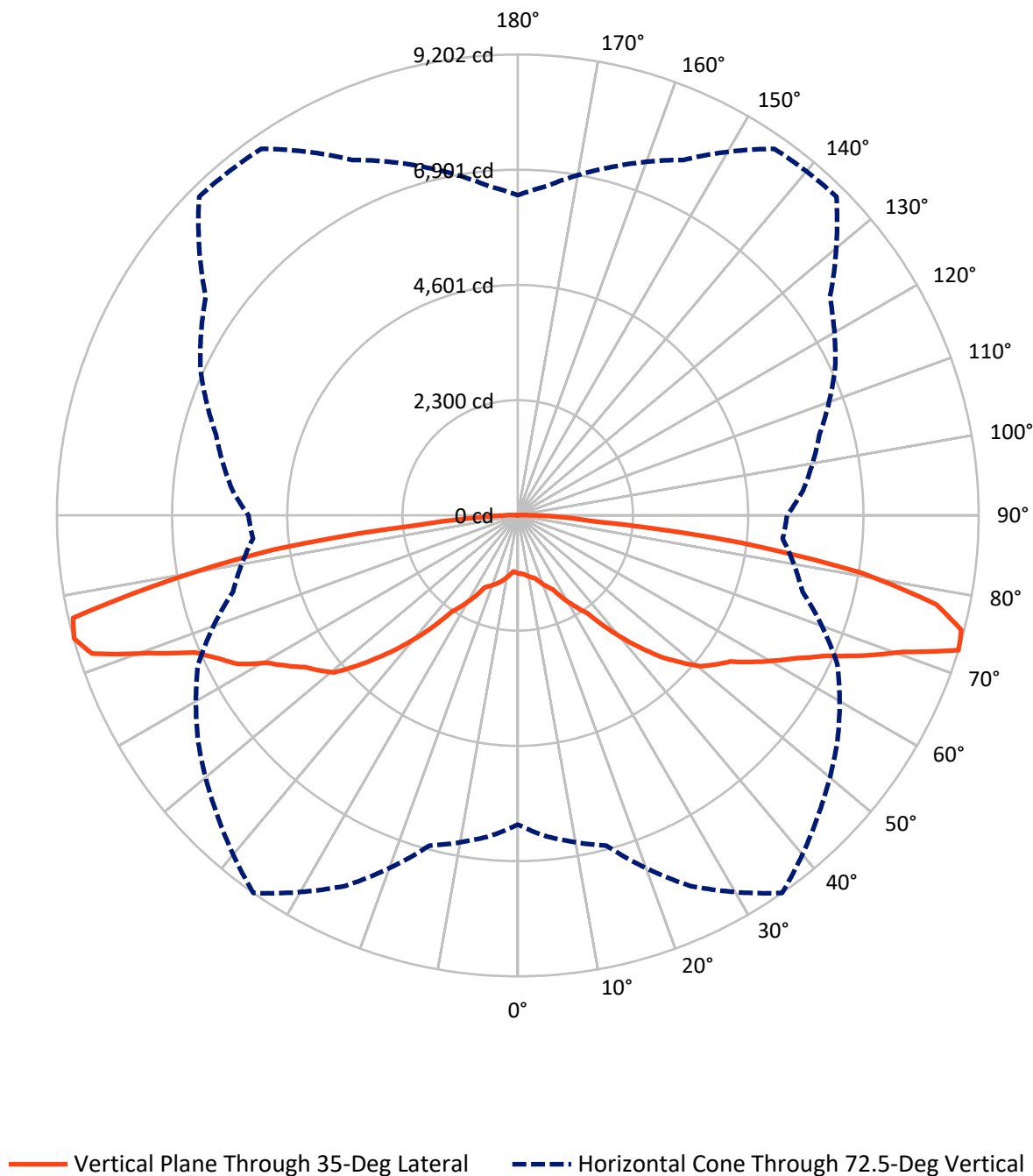
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: 766034_350MP
CATALOG NUMBER: GMX35PXXRW

Luminous Intensity Polar Plot



REPORT NUMBER: 766034_350MP

CATALOG NUMBER: GMX35PXXRW

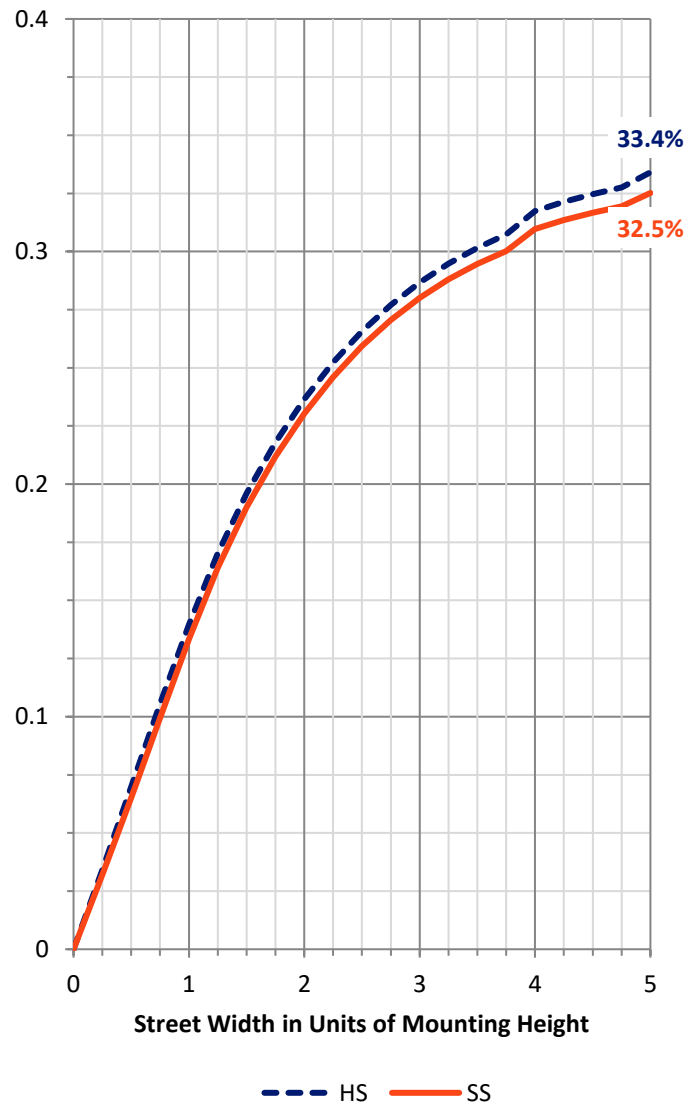
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12597.8	70.4	12668.1
	% Lamp	34.0	0.2	34.2
Street Side	Lumens	12296.2	53.4	12349.5
	% Lamp	33.2	0.1	33.4
Total	Lumens	24893.9	123.7	25017.7
	% Lamp	67.3	0.3	67.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.0	0.4	0.3
10°-20°	375.5	1.5	1.0
20°-30°	771.3	3.1	2.1
30°-40°	1549.3	6.2	4.2
40°-50°	2942.6	11.8	8.0
50°-60°	4450.0	17.8	12.0
60°-70°	6104.2	24.4	16.5
70°-80°	6800.8	27.2	18.4
80°-90°	1879.9	7.5	5.1
90°-100°	99.3	0.4	0.3
100°-110°	26.0	0.1	0.1
110°-120°	4.8	0.0	0.0
120°-130°	0.6	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°	24893.9	99.5	67.3
0°-180°	25017.7	100.0	67.6

Coefficient of Utilization



REPORT NUMBER: 766034_350MP

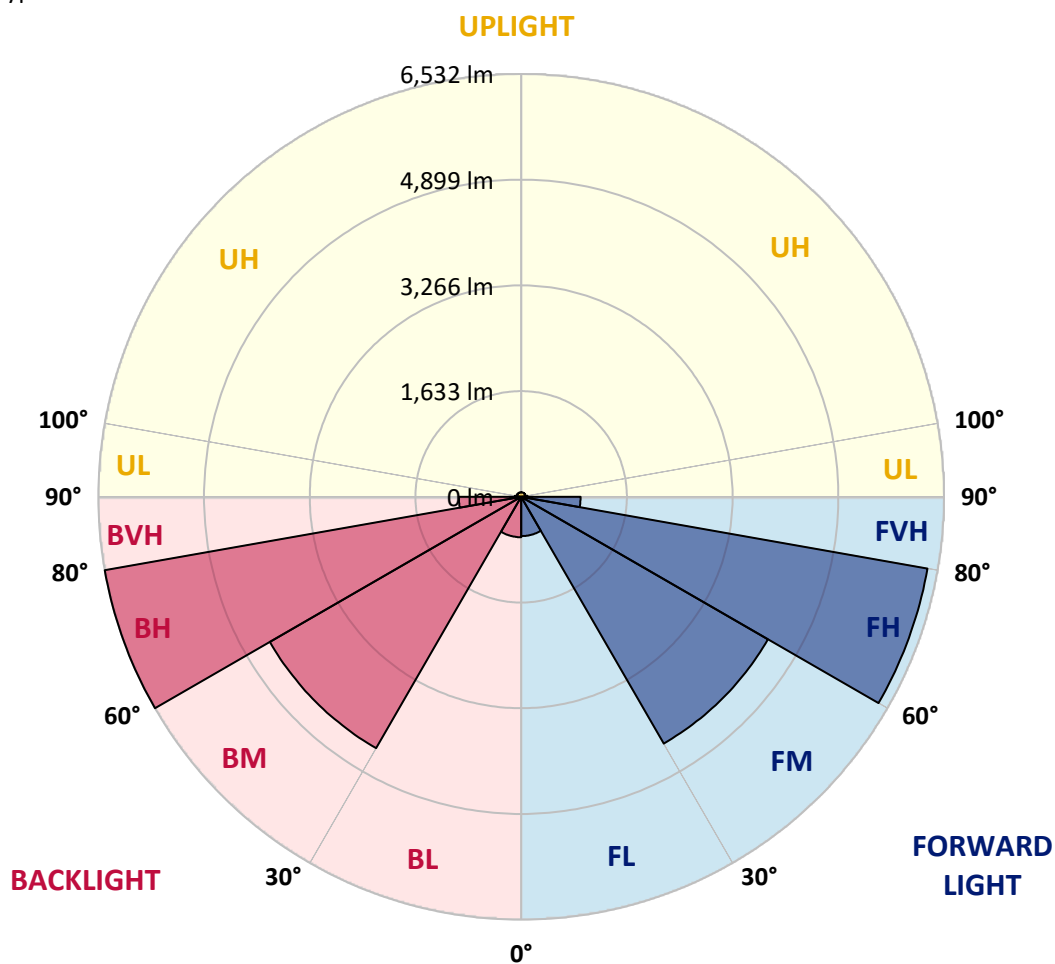
CATALOG NUMBER: GMX35PXXRW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.3	1.6			
FM	(30°-60°)	4401.8	11.9			
FH	(60°-80°)	6373.3	17.2			G3/7500
FVH	(80°-90°)	917.5	2.5			G5
BL	(0°-30°)	624.3	1.7	B2/1000		
BM	(30°-60°)	4483.0	12.1	B3/5000		
BH	(60°-80°)	6531.8	17.7	B5		G3/7500
BVH	(80°-90°)	962.4	2.6			G5
UL	(90°-100°)	99.3	0.3		U3/500	
UH	(100°-180°)	70.4	0.2		U3/500	
Trapped Light		11982.3	32.4			

BUG Rating: B5-U3-G5

Type V Short





REPORT NUMBER: 766034_350MP

CATALOG NUMBER: GMX35PXXRW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
5°	1202.5	1205.6	1188.1	1192.2	1176.8	1162.4	1167.6	1147.0	1141.9	1116.2	1128.5
15°	1253.9	1257.0	1249.8	1284.7	1303.2	1276.5	1223.1	1202.5	1162.4	1185.0	1213.8
25°	1617.7	1631.1	1635.2	1648.6	1641.4	1595.1	1545.8	1474.9	1369.0	1377.2	1408.1
35°	2387.5	2361.8	2378.3	2397.8	2398.8	2364.9	2267.3	2160.4	1952.8	1983.6	2088.4
45°	3688.7	3948.7	3960.0	4010.4	4036.1	3931.2	3716.4	3649.6	3237.5	3390.6	3400.9
50°	4627.1	4645.6	4743.2	4894.3	4735.0	4983.7	4507.8	4387.6	3752.4	3926.1	4054.6
55°	4774.0	4949.8	5177.9	5295.1	5150.2	5195.4	4934.4	4884.0	4082.3	4161.5	4412.2
60°	5175.9	5264.3	5520.2	5681.6	5887.1	5825.4	5707.2	5257.1	4625.0	4382.4	4604.4
62.5°	5536.6	5536.6	5868.6	6199.6	6275.6	6286.9	6232.4	5618.9	4893.2	4704.1	4878.9
65°	5426.7	5768.9	6151.2	6600.4	6757.6	6716.5	6546.9	5973.4	5101.9	4860.4	5034.1
67.5°	5922.1	5995.0	6368.1	6928.2	7461.7	7168.7	6955.0	6286.9	5272.5	4949.8	5144.0
70°	6217.0	6230.4	6773.1	7578.8	8162.6	7800.8	7476.1	6542.8	5579.8	5144.0	5301.3
72.5°	6172.8	6427.7	6824.4	8162.6	9201.7	8477.1	7796.7	7043.4	5885.1	5308.5	5377.3
75°	5584.9	5643.5	6261.2	7477.1	9148.2	7970.4	7388.7	6265.3	5540.7	4942.6	5088.5
77.5°	4372.2	4399.9	5401.0	6672.3	8543.9	7336.3	6414.4	5285.9	4571.6	4466.7	4779.2
80°	2665.0	2964.1	3436.9	4581.8	6960.1	5645.6	4709.3	4059.7	3097.7	3330.0	3895.3
82.5°	1497.5	1837.7	1952.8	2733.9	4499.6	4021.7	3358.8	2569.4	2328.9	2190.2	2298.1
85°	676.3	613.6	853.1	1264.2	1543.7	1446.1	1643.4	1057.6	921.9	977.4	1162.4
87.5°	247.7	281.6	407.0	591.0	764.7	704.0	654.7	639.3	378.2	345.3	322.7
90°	64.8	94.6	112.0	164.4	216.9	232.3	216.9	192.2	161.4	106.9	106.9
95°	23.6	32.9	43.2	59.6	70.9	63.7	68.9	71.9	61.7	41.1	39.1
105°	7.2	10.3	12.3	15.4	7.2	8.2	13.4	22.6	17.5	7.2	3.1
115°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
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
165°	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



REPORT NUMBER: 766034_350MP

CATALOG NUMBER: GMX35PXXRW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
5°	1135.7	1113.1	1114.1	1107.9	1102.8	1121.3	1102.8	1105.9	1128.5	1088.4
15°	1251.8	1354.6	1375.2	1412.2	1435.8	1369.0	1405.0	1372.1	1356.7	1377.2
25°	1466.6	1578.7	1564.3	1594.1	1602.3	1574.6	1533.4	1543.7	1514.9	1553.0
35°	2153.2	2153.2	2361.8	2341.3	2406.0	2334.1	2280.6	2237.5	2148.1	2211.8
45°	3593.1	3769.9	3886.0	3918.9	3886.0	3977.5	3838.7	3874.7	3745.2	3719.5
50°	4141.9	4548.9	4674.3	4937.4	4832.6	4830.6	4657.9	4658.9	4468.8	4355.7
55°	4343.4	4834.7	4960.1	5211.9	5136.8	5217.0	5021.7	4830.6	4743.2	4596.2
60°	4817.2	5206.7	5498.6	5991.9	5859.4	5797.7	5787.4	5677.4	5291.0	5385.6
62.5°	5149.2	5485.2	5876.8	6297.2	6375.3	6321.9	6313.6	6112.2	5715.5	5671.3
65°	5257.1	5682.6	6124.5	6631.2	6757.6	6626.1	6682.6	6261.2	5933.4	5887.1
67.5°	5377.3	5812.1	6355.8	6929.3	7199.6	6998.1	7077.3	6663.1	6127.6	6148.2
70°	5588.0	5968.3	6651.8	7200.6	8090.7	7848.1	7434.9	7002.2	6324.9	6271.5
72.5°	5717.5	6235.5	6993.0	7607.6	8997.2	8933.4	7827.6	7197.5	6596.3	6391.7
75°	5181.0	5633.2	6345.5	7058.8	8927.3	9193.5	7207.8	6579.8	5930.3	5664.1
77.5°	4350.6	4532.5	5131.7	6275.6	8377.4	9112.3	6437.0	5595.2	5435.9	5272.5
80°	3302.2	3332.1	3572.6	4360.9	6491.4	7018.7	4650.7	3764.7	3829.5	3775.0
82.5°	2012.4	2029.9	2165.5	2694.8	4121.4	4911.7	2771.9	2598.2	2098.7	2060.7
85°	944.5	973.3	1234.4	1446.1	1894.2	2016.5	1622.9	1042.2	970.2	872.6
87.5°	340.2	432.7	603.3	726.6	688.6	716.4	642.4	412.1	343.3	319.6
90°	107.9	148.0	216.9	279.6	283.7	289.8	240.5	202.5	117.2	106.9
95°	44.2	81.2	86.3	97.6	84.3	91.5	94.6	71.9	58.6	44.2
105°	7.2	18.5	23.6	15.4	12.3	13.4	22.6	17.5	10.3	7.2
115°	3.1	3.1	3.1	3.1	5.1	5.1	5.1	2.1	2.1	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
165°	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)